

19990904.qrp v01_n569.qrl.990904

Date: Sat, 4 Sep 1999 19:03:03 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1569

QRP-L Digest 1569

Topics covered in this issue include:

- 1) [49295] Re: SWR/Wattmeter Homebrew or Kit?
by "Michael A. Newell" <wb4huc@texas.net>
- 2) [49296] K2 Screws
by mjfitz@uswest.net
- 3) [49297] BayGen Freeplay radio interference from generator.
by Randy and Cara Randall <crrandal@seidata.com>
- 4) [49298] ARCI QRPp WAS & DXCC awards
by Jim Hale <kj5tf@yahoo.com>
- 5) [49299] Centennial SSB Kit
by Norman Young <normany@mindspring.com>
- 6) [49300] Re: QRP TTF---OOPS! - DSW-20 fine; TICK 4 future;
by S LYON <sslyon@worldnet.att.net>
- 7) [49301] Re:QRN
by Pete Burbank <plburbank@kih.net>
- 8) [49302] Re: QRP AField in a few weeks
by S LYON <sslyon@worldnet.att.net>
- 9) [49303] Re: 3D2QB
by k5zty@juno.com
- 10) [49304] WTB: NorCal paddle
by k5zty@juno.com
- 11) [49305] Re: cabinet screws on K2
by k5zty@juno.com
- 12) [49306] BIG capacitors
by Jeff Furman <jfurman@ocs.net>
- 13) [49307] Heath shielded wire
by K2UD@aol.com
- 14) [49308] Re: QRP TTF---OOPS! - DSW-20 fine; TICK 4 future;
by Phil Wheeler <w7ox@mindspring.com>
- 15) [49309] Re: K2 Screws
by "Steve Sorrell" <ap036@detroit.freenet.org>
- 16) [49310] RE: K2 Screws
by "Bill Johnson" <b1ljohn@msn.com>
- 17) [49311] SP/HPM/130
by Michael C Boatright <ko4wx@mindspring.com>
- 18) [49312] Re: need pics immediately
by "Dave Fifield" <fifield@pacbell.net>
- 19) [49313] Re: K2 screws

- by "Dave Fifield" <fifield@pacbell.net>
- 20) [49314] Re: K2 screws
by "Steve Sorrell" <ap036@detroit.freenet.org>
- 21) [49315] Weekend Solar Condx
by "Paul Harden, NA5N" <na5n@rt66.com>
- 22) [49316] Solar for QRP AFIELD
by "Paul Harden, NA5N" <na5n@rt66.com>
- 23) [49317] Re: K2 screws
by "Dave Fifield" <fifield@pacbell.net>
- 24) [49318] Want: Manual for HTX-100
by ka7you@juno.com
- 25) [49319] QRP AFIELD vs TO THE FIELD
by "Paul Harden, NA5N" <na5n@rt66.com>
- 26) [49320] Re: Grid Notebook Power Supply
by ka7you@juno.com
- 27) [49321] RE: I Love this place!!!!
by aweiss@usd.edu (Ade Weiss W0RSP)
- 28) [49322] Thanks for your help!
by Daniel Bartlett <ausham@rocknet.net.au>
- 29) [49323] Super VX0 Question
by aweiss@usd.edu (Ade Weiss W0RSP)
- 30) [49324] FINALLY!!! Got my website up...
by "Ed Tanton" <n4xy@att.net>
- 31) [49325] MFJ-941D
by kc0bdw@webtv.net (Hal Schlotfeld)
- 32) [49326] QRP PLUS
by kc0bdw@webtv.net (Hal Schlotfeld)
- 33) [49327] Apology to Steve Sorrell
by "Dave Fifield" <fifield@pacbell.net>
- 34) [49328] RE: I Love this place!!!!
by Pete Burbank <plburbank@kih.net>
- 35) [49329] Re: Grid Notebook Power Supply
by Bob Patten <n4bp@bc.seflin.org>
- 36) [49330] Re: Proximity Switched Keyer
by Paul Kaczmarek <catmandu@freewwwweb.com>
- 37) [49331] Re: need pics immediately
by K2UD@aol.com
- 38) [49332] DSW-40 tuning question
by Michael Bower <bowerm@ix.netcom.com>
- 39) [49333] All Electronics and similiar firms question
by Stan Wilson <microres@crl.com>
- 40) [49334] RE: I Love this place!!!!
by "Dan W. Dooley" <dandooley@pipeline.com>
- 41) [49335] Re: DSW-40 tuning question
by Phil Wheeler <w7ox@mindspring.com>
- 42) [49336] Re: SWR/Wattmeter Homebrew or Kit?
by Phil Wheeler <w7ox@mindspring.com>
- 43) [49337] MFJ Enterprises info numbers

by charles k brown <n4so@juno.com>
44) [49338] Re: BIG capacitors
by Bob Nielsen <nielsen@primenet.com>
45) [49339] Re: All Electronics and similiar firms question
by Dave Sjolín <sjolin@swbell.net>
46) [49340] levels of qrp
by "Jerry W. O'Dell" <jwodel@ameritech.net>
47) [49341] ALL ELECTRONICS CORP.
by charles k brown <n4so@juno.com>
48) [49342] VELLEMAN kits
by charles k brown <n4so@juno.com>
49) [49343] RE Levels of Qrp
by hamjoel@juno.com
50) [49344] Re: Apology to Steve Sorrell
by "Steve Sorrell" <ap036@detroit.freenet.org>
51) [49345] qrp fans
by ac5ez@webtv.net (Larry B)
52) [49346] Re: QRP AField in a few weeks
by "David Benson" <nn1g@earthlink.net>
53) [49347] Free PCB jumpers
by K2UD@aol.com
54) [49348] Re: BIG capacitors
by "Nick Kennedy" <nkennedy@cswnet.com>
55) [49349] SUPER VXO QUESTION
by chuck.olson@sbaonline.gov
56) [49350] RE: BIG capacitors
by "Roger A. McCarty" <rmccarty@earthlink.net>
57) [49351] Help on MFJ 941D
by kc0bdw@webtv.net (Hal Schlotfeld)
58) [49352] FS: Classic Powermite PM3A station
by VE3JC - John C <jbcumming@wwdc.com>
59) [49353] Boatanchors // ELECTRIC RADIO
by charles k brown <n4so@juno.com>
60) [49354] QRP-L FIRST!!! 3 IN 1
by hamjoel@juno.com
61) [49355] FS: Hustler mobile antenna system
by Bruce Grubbs <bog@flagstaff.az.us>
62) [49356] Re: MFJ and Vectronics
by semann@tcia.net (Steven Mann)
63) [49357] RE: 3D2QB
by "Alex Mendelsohn" <ai2q@ispchannel.com>
64) [49358] NO MORE OFFERS-PLEASE!
by ka7you@juno.com
65) [49359] Velleman kits
by tom whalen <wb5qyt@eFortress.com>
66) [49360] Tektronix Applic Note: The ABCs of Oscilloscopes
by "Ed Tanton" <n4xy@att.net>
67) [49361] RE: I Love this place!!!!

- by "Chuck Adams, K7Q0" <k7qo@hotmail.com>
- 68) [49362] OT - military surplus euqipment
by n5ib@juno.com
- 69) [49363] Re: Free PCB jumpers
by "Chuck Adams, K7Q0" <k7qo@hotmail.com>
- 70) [49364] Re: Thanks for your help!
by "Mike Silva" <mjsilva@jps.net>
- 71) [49365] Re: levels of qrp
by "Steven Weber" <kd1jv@moose.ncia.net>
- 72) [49366] Re: Cubic Astro 150A - Thanks Gang
by Terry Bendell <terryb@bmts.com>
- 73) [49367] Another 2N2/40 Lives!!
by Bill B Lazure <n2tpa@juno.com>
- 74) [49368] technical question
by Bruce Rattray <rattray@gpfn.sk.ca>
- 75) [49369] Books Available For Trade
by Brian Short <bshort@speedchoice.com>
- 76) [49370] Re: QRP-L FIRST!!! 3 IN 1
by Kenneth R Wezeman <n9qil@juno.com>
- 77) [49371] Re: [technical question]
by Roy Lincoln <wa4dou@usa.net>
- 78) [49372] Re: SWR/Wattmeter Homebrew or Kit?
by Bruce Hopkins - KL7H <kl7h@arrl.net>
- 79) [49373] MYE KEYSER MANUAL NEEDED
by Brad Bradfield <b_bradfield@yahoo.com>
- 80) [49374] Shelby QRP get together
by K4NK@aol.com
- 81) [49375] Oh Canada
by "Carlos J. Caro" <CJCARO@email.msn.com>
- 82) [49376] Looking Norcal Paddle Kit?
by Roy Lincoln <wa4dou@usa.net>
- 83) [49377] Help with Spyder (?) kits
by "Mike =?ISO-8859-1?Q?N=D8WDM"?= <michaelbstjames@email.msn.com>
- 84) [49378] Norcal paddle
by "Mark Paley" <mpaley@wcnet.org>

Date: Fri, 03 Sep 1999 18:19:11 -0500
From: "Michael A. Newell" <wb4huc@texas.net>
To: dave_castor@easypower.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [49295] Re: SWR/Wattmeter Homebrew or Kit?
Message-ID: <37D0576F.59E8E7C2@texas.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Another alternative might be the
Ten Tec HF/VHF wattmeter kit.

It covers 1.8 to 30mhz plus 2 meters,
with separate antenna connectors for
each rig and antenna.

It has two ranges, 20 or 200 watts, but
according to Stuart, K5KVH, it can be
adjusted to cover the 2 and 20 watt
ranges.

The URL is: <http://www.tentec.com/tk1202.htm>
and it sells for \$49.

72,

--

Michael A. Newell - WB4HUC
Austin, TX
QRP-L 1668
<http://wb4huc.home.texas.net/>

Date: Fri, 03 Sep 1999 18:23:16 -0500
From: mjfitz@uswest.net
To: QRP-L Posts <qrp-l@LEHIGH.EDU>
Subject: [49296] K2 Screws
Message-ID: <37D05864.4ED30AAF@uswest.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

K2ers,

I agree with Doug...would like to see countersunk
holes/flathead screws on the next generation of K2. I love
my K2 as it is, but it would be even better without all
those little black bumps all over it. The wrench could go
in a holder or slot or something under the radio, if they
were hex-headed...Maybe make the panels out of slightly
thicker alloy to accomodate this if needed.

Wayne and Eric did a fantastic job and this is not a
critism, just something I would prefer personally. I just
think it would bring the outside "up to scale" with the
electronics, which are first-rate. Mind you, the box is not
bad as is...just don't care for the screwheads sticking out
all over...my 2 cents.

I ran the BUBBA event with the K2...never was it so much

fun or easy! Great radio.

Mike NOMF
Mo. Vly IA

Date: Fri, 03 Sep 1999 18:43:04 -0500
From: Randy and Cara Randall <crrandal@seidata.com>
To: unlisted-recipients;; (no To-header on input)
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [49297] BayGen Freeplay radio interference from generator.
Message-ID: <37D05D08.8201E53C@seidata.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello all. I just purchased a BayGen Freeplay 2 on the web and it arrived a couple of days ago. It seems to work well except for interference on the AM band from the generator. It is annoying to listen to AM with this going on esp. on DX stations. Is this normal for it to do this or did I get a bad one? Any other BayGen owners out there? I was going to place bypass caps on the generator to see if that would quiet it down, but it looks as if I have to disassemble part of the clockwork to do it. The warnings about the spring (skull and crossbones!) is keeping me out of there! I know what one of those springs can do!

Thanks,
Randy KB8AS0

p.s. This one was made in China NOT in South Africa (darn it!) Anyone have a schematic?

Date: Fri, 3 Sep 1999 17:26:44 -0700 (PDT)
From: Jim Hale <kj5tf@yahoo.com>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [49298] ARCI QRPP WAS & DXCC awards
Message-ID: <19990904002644.13474.rocketmail@web705.mail.yahoo.com>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Congratulations to Larry Cahoon WD3P!

I'm hot on the trail of award #2, but I'm betting there are many more out there such as Larry.

Everyone spread the word to your QRP/mWing friends about this new award from ARCI.

I'd be proud to receive award #?? behind the many other milliwatters out and about.

Since I started my milliwatting efforts, I've met several others like Larry. Spread the word..

73/2's and sometimes 71's de Jim KJ5TF

Do You Yahoo!?

Bid and sell for free at <http://auctions.yahoo.com>

Date: Fri, 03 Sep 1999 20:35:48 -0400
From: Norman Young <normany@mindspring.com>
To: qrp-1@Lehigh.EDU
Subject: [49299] Centennial SSB Kit
Message-ID: <1.5.4.16.19990904003548.28871bd2@pop.mindspring.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Gang,

Anyone out there built the Centennial SSB kit from Dan's Small Parts? If so, what were your impressions of the kit, and the subsequent performance of the radio? =20

I found a review of this rig on the Adventure Radio Society's website which answered some of my questions, but I'd like to know whether this would be worth my time. =20

http://www.natworld.com/ars/pages/back_issues/0598_7Ftext/cent.html

FWIW, I have built a number of kits over the years, so I am a relatively

experienced kit builder.

If you think your thoughts would benefit others on the list, post online.
Otherwise, feel free to email me direct.

72,
Norman

Norman Young <><
KA4PUV
Zebulon, NC

Date: Fri, 03 Sep 1999 20:52:59 -0400
From: S LYON <sslyon@worldnet.att.net>
To: David Benson <nn1g@earthlink.net>, qrp chat <qrp-1@Lehigh.EDU>
Subject: [49300] Re: QRP TTF---00PS! - DSW-20 fine; TICK 4 future;
Message-ID: <37D06D6B.F8C34C5C@worldnet.att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

-ahem... yes... well... the lory of my stife... get my mords all wixed
up. So o.k. -I'll be out there in the field somewhere on Mt Beacon at
some date close to Afield day, I'm almost sure.

Been having fun afield on 20m with the DSW, a Rainbow and various wires.
Today worked Bob, N4BP first from the clandestine spot in CT close to
where I work, (66' dipole @ 60') then again tonite from the converted
city dump on the Hudson near home (3/2 wave sloper up to 60' + two 1/4
wave radials) from the park bench. Bob and I seem to have a pipeline. A
bit earlier I worked an EA3 for a nice chat and first DX from a
back-pack portable w/DSW.

Next trick is working a TICK-4 into the DSW for slick contest
operating. Anyone else thinking along these lines?
72

(David... doing a loop in that clearing?)

'Seab' Lyon - AA1MY
Beacon NY USA FN-31

QRP-L 574 ARCI 9253

Date: Fri, 03 Sep 1999 20:54:54 -0400
From: Pete Burbank <plburbank@kih.net>
To: <qrp-l@Lehigh.EDU>
Subject: [49301] Re:QRN
Message-ID: <3.0.32.19990903205451.007182cc@kih.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

The TV horiz osc frequency is 15750 and yes the harmonics can radiate in the city with a leaky cable system....reason lebenty-seven why I live in the boonies.
73 Pete NV4V vvvvvv

Date: Fri, 03 Sep 1999 20:57:09 -0400
From: S LYON <sslyon@worldnet.att.net>
To: kd7s@psnw.com, qrp chat <qrp-l@Lehigh.EDU>
Subject: [49302] Re: QRP AField in a few weeks
Message-ID: <37D06E65.20653899@worldnet.att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Bill... what band will you cut it for? I'm pondering a 20m EDZ version that will cover 40m, too... even if I can't get the altitude. (no sequoias out thissaway)
72
-s-

Bill Jones wrote:

>
> Hey guys, count me in. I'm heading for the high country again --- the
> central California Sierra. I will spend four days among the Giant Sequoias,
> Golden Mantel chipmunks and maybe even a bear or two.
>
> Thanks to what I've learned from L.B. Cebik's web site I should have a big,
> Lazy H high in the trees this year, so listen for a killer signal from my
> Argonaut 509.
>
> --
> =====
> Bill Jones - KD7S <><
> Sanger, California

> <http://www.psnw.com/~kd7s>
> =====

--

'Seab' Lyon - AA1MY
Beacon NY USA FN-31
QRP-L 574 ARCI 9253

Date: Fri, 3 Sep 1999 17:57:44 -0500
From: k5zty@juno.com
To: k6hcj@juno.com
Cc: qrp-l@Lehigh.EDU
Subject: [49303] Re: 3D2QB
Message-ID: <19990903.200259.8606.3.k5zty@juno.com>

That's Alan of Fiji, His manager is SM3CER if you want a card.

Date: Fri, 3 Sep 1999 18:29:27 -0500
From: k5zty@juno.com
To: qrp-l@lehigh.edu
Subject: [49304] WTB: NorCal paddle
Message-ID: <19990903.200259.8606.5.k5zty@juno.com>

I have a friend who is putting together a travel box for his transciever and needs a small key. I would like to have a NorCal, K8FF, paddle for him. It can be wide spaced or narrow, finished, semi-finished or still in kit form, but it must be complete. All parts must be there and not damaged.

If you have one for sale, please contact me direct.

Thanks,
Bill, K5ZTY
Houston, TX
k5zty@juno.com

Date: Fri, 3 Sep 1999 18:21:45 -0500
From: k5zty@juno.com
To: n6kr@elecraft.com
Cc: qrp-l@lehigh.edu
Subject: [49305] Re: cabinet screws on K2
Message-ID: <19990903.200259.8606.4.k5zty@juno.com>

Man, some guys are picky. The way the K2 performs and with the features that it has, I never noticed the damn case screws. I think it is beautiful.

Bill, K5ZTY
Houston, TX
K2 # 182

Date: Fri, 3 Sep 1999 18:09:00 -0700 (PDT)
From: Jeff Furman <jfurman@ocs.net>
To: qrp-1@lehigh.edu
Subject: [49306] BIG capacitors
Message-ID: <Pine.LNX.4.04.9909031746190.24933-100000@ocs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

The roughly cubic-inch sized one farad capacitors won't part with their stored energy readily at high currents because of their high internal resistance, however there is another class of farad or fractional farad capacitors intended to supply energy peaks to those 15- or 18- inch subwoofer loudspeakers you hear playing in all the cool cars these days. They are maybe quart milk bottle sized aluminum electrolytics, and I suspect their ESR (equivalent series resistance) is appropriately low for this critical service. Even though they are low voltage say, 15V., I wouldn't wear any jewelery near one of these guys. For the record, the available stored energy (units are joules 'jewels, not jowls' or watt-seconds) in a charged capacitor is $C \cdot V \cdot V / 2$, C is farads, V is volts; so you see the energy grows faster with increases in voltage than capacitance. Just for fun, how much energy is in a 300 microfarad capacitor charged to 300V? That's the flash reservoir in a disposable flash camera. Compare that to the 1-f. cap at 5V.

Jeff KD6MNP

Date: Fri, 3 Sep 1999 21:21:54 EDT
From: K2UD@aol.com
To: qrp-1@lehigh.edu
Subject: [49307] Heath shielded wire
Message-ID: <cfeb9788.2501ce32@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Content-Transfer-Encoding: 7bit

Many of you are likely familiar with the gray shielded wire that Heathkit provided with many of their products, namely their QRP rigs and keyers. You know the stuff, it was soft, flexible, had a white insulated jacket that always melted when you soldered connectors onto the wire!

Does anybody know where this wire is available these days? I wish to make several dedicated jumper cables for all the keyers, keys, bugs and what-not that I have laying around. I haven't tried the Heath reflectors yet, I was hoping that somebody on the QRP list might have info on this wire.

Thanks to all in advance for any help you might be on this subject.

72

Howard Kraus, K2UD

Date: Fri, 03 Sep 1999 18:47:58 -0700
From: Phil Wheeler <w7ox@mindspring.com>
To: sslyon@worldnet.att.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [49308] Re: QRP TTF---00PS! - DSW-20 fine; TICK 4 future;
Message-ID: <37D07A4E.E70AFAB8@mindspring.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

S LYON wrote:

>
> Been having fun afield on 20m with the DSW, a Rainbow and various wires.
> Today worked Bob, N4BP first from the clandestine spot in CT close to
> where I work, (66' dipole @ 60') then again tonite from the converted
> city dump on the Hudson near home (3/2 wave sloper up to 60' + two 1/4
> wave radials) from the park bench. Bob and I seem to have a pipeline. A
> bit earlier I worked an EA3 for a nice chat and first DX from a
> back-pack portable w/DSW.
>

Good to hear that; I have one sitting on my desk waiting to be built this weekend.

> Next trick is working a TICK-4 into the DSW for slick contest
> operating. Anyone else thinking along these lines?

>

I wish!

Phil

Date: Sat, 4 Sep 1999 02:58:48 +0100
From: "Steve Sorrell" <ap036@detroit.freenet.org>
To: <mjfitz@uswest.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [49309] Re: K2 Screws
Message-ID: <042301bef679\$0817b640\$b642b3c7@sorrells>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="us-ascii"
Content-Transfer-Encoding: 7bit

Oh God, the dreaded BUMPS
de Steve, W8SFF

Date: Fri, 3 Sep 1999 21:59:09 -0500
From: "Bill Johnson" <b11john@msn.com>
To: <mjfitz@uswest.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [49310] RE: K2 Screws
Message-ID: <000e01bef681\$75b28380\$a8380b3f@bill>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Another way to look at the screw heads... protects the case and we don't risk scratching the paint. This is especially good for those of us who like to "get under the hood" a bunch. I love the K-2 and the operation. Can't wait for the options so I can truly go portable and take the rig everywhere with everything but a keying device contained in the cabinet.

72,

Bill
K9YEQ
b11john@msn.com
MNQRP Club
K-2 (FT #35), NC-40A, 38S, LDG QRP Auto tuner

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of
mjfitz@uswest.net

Sent: Friday, September 03, 1999 6:23 PM

To: Low Power Amateur Radio Discussion

Subject: K2 Screws

K2ers,

I agree with Doug...would like to see countersunk
holes/flathead screws on the next generation of K2. I love
my K2 as it is, but it would be even better without all
those little black bumps all over it. The wrench could go
in a holder or slot or something under the radio, if they
were hex-headed...Maybe make the panels out of slightly
thicker alloy to accomodate this if needed.

Wayne and Eric did a fantastic job and this is not a
critism, just something I would prefer personally. I just
think it would bring the outside "up to scale" with the
electronics, which are first-rate. Mind you, the box is not
bad as is...just don't care for the screwheads sticking out
all over...my 2 cents.

I ran the BUBBA event with the K2...never was it so much
fun or easy! Great radio.

Mike NOMF
Mo. Vly IA

Date: Fri, 03 Sep 1999 23:54:20 -0400
From: Michael C Boatright <ko4wx@mindspring.com>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [49311] SP/HPM/130
Message-ID: <37D097EC.E637C273@mindspring.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Any other Spartan Sprinters signing /130 (ARRL HPM/130 event) on Monday?

--

Mike Boatright, K04WX
District EC, GEMA, Amateur Radio Emergency Service

A rock pile ceases to be a rock pile the moment a single man
contemplates it, bearing within him the image of a cathedral.
Antoine de Saint-Exupery

Date: Fri, 3 Sep 1999 21:31:42 -0700
From: "Dave Fifield" <fifield@pacbell.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [49312] Re: need pics immediately
Message-ID: <005301bef68e\$63cfbc20\$0100a8c0@pacbell.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Digikey sell PIC's. Wonderful little devices ;-)

72, Dave, AD6A

Date: Fri, 3 Sep 1999 21:42:20 -0700
From: "Dave Fifield" <fifield@pacbell.net>
To: <ap036@detroit.freenet.org>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [49313] Re: K2 screws
Message-ID: <008f01bef68f\$e0430f40\$0100a8c0@pacbell.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Steve,

In the next version of the Red Hot Radio NC20/40/whatever, I'm going to
include one of those little clips to hold the allen key on the rear panel so
you will always have it to hand! Okay?

72, Dave Fifield, AD6A

<http://www.redhotradio.com>

From: Steve Sorrell <ap036@detroit.freenet.org>

> (snip) I whined when

> c/sunk allen/ flat head screws were used in the NC20. I don't have a

> problem with flat head screws but 86 the allen head jobs. I got caught this

> past week on vacation and wanted the cover off my NC20 and didn't have an

> allen wrench with me (snip)

Date: Sat, 4 Sep 1999 04:44:42 +0100

From: "Steve Sorrell" <ap036@detroit.freenet.org>

To: "Dave Fifield" <fifield@pacbell.net>, "Low Power Amateur Radio Discussion"
<qrp-l@Lehigh.EDU>

Subject: [49314] Re: K2 screws

Message-ID: <046401bef687\$d57fe860\$b642b3c7@sorrells>

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

No Dave, not OK!

Why are you folks 'locked' into the allen wrench/key thing? Why should you have to put a special clip to hold the 'special' tool? Just put a slot or phillips head in the screw and end of discussion!

Even my Swiss army knife has a flat blade and phillips head screwdriver on it, but NO ALLEN WRENCHES!

Remember KISS (keep it simple stupid)

de Steve, W8SFF

Date: Fri, 3 Sep 1999 23:06:58 -0600 (MDT)

From: "Paul Harden, NA5N" <na5n@rt66.com>

To: qrp-l@lehigh.edu, cqclist@cqc.org

Subject: [49315] Weekend Solar Condx

Message-ID: <Pine.SUN.4.10.9909032239020.15680-100000@shell.rt66.com>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,

Solar activity itself has been fairly quiet past few days, but the aftermath of some flares and coronal mass ejections continues to disturb our magnetic field, producing some rocky HF conditions.

This 28-day solar rotation was weird, in that the solar flux rose very quickly to make a sharp peak a bit above 200, and seems to now be falling just as quickly. If you plot solar flux over a 28-day rotation, it makes a rough "sine wave" as the solar flux hits minimum and 14-days (or so) later hits maximum. But this solar rotation plots a very sharp peak, and falling like a rock ... at 138 already today with another week for it to fall. The bad news is 15-10M will be mushy at best next 2 weeks. The good news is the lower solar flux, and hence lower sunspot number, means a quiet sun for a couple of weeks, and the noisy HF conditions from these flares and CME's will subdue to make quieter conditions on 20-40M.

A nice graphical plot of the daily solar flux, sunspot number and geomagnetic A-index from the current day back 3 solar rotations is found at ... www.dxlc.com A very nice, concise site, BTW.

The forecast for this weekend would be 10M probably hosed for any decent work, sporadic openings on 15M, with 20-30M supporting good DX propagation. On 40M, conditions will be a bit noisy Saturday, with a likelihood Sunday evening-Monday with minor storm conditions as the particles from a couple of minor CME's hit (or brush) the Earth. Since there isn't a strong shock wave associated with these, conditions will probably be marked with periodic static crashes (you know, the kind that go CRASH just as the guy's repeating his name for the 3rd time!)

All in all, a little noisy, but no reason to NOT get on the air.

> JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

> SDF NUMBER 246 ISSUED AT 2200Z ON 03 SEP 1999

> IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 02/2100Z TO 03/2100Z:

> THE GEOMAGNETIC FIELD WAS AT QUIET TO MINOR STORM CONDITIONS DURING

> THE PERIOD.

> IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS

> EXPECTED TO BE QUIET TO UNSETTLED CONDITIONS THE FIRST TWO DAYS OF

> THE FORECAST PERIOD. THE THIRD DAY MAY EXPERIENCE ACTIVE TO

> NEAR-STORM LEVEL CONDITIONS DUE TO CME ACTIVITY OF THE PAST TWO

> DAYS.

The 3rd day would be Sunday. Because these CME's were minor, with one actually beyond the sun's limb, their velocity will be slower than that from a larger flare, making the arrival time later than the usual 55 hours sun-earth travel time.

> IV. PENTICTON 10.7 CM FLUX

> OBSERVED 03 SEP 139

> PREDICTED 04 SEP-06 SEP 135/130/130
> 90 DAY MEAN 03 SEP 168

> V. GEOMAGNETIC A INDICES
> OBSERVED AFR/AP 02 SEP 011/011
> ESTIMATED AFR/AP 03 SEP 020/017
> PREDICTED AFR/AP 04 SEP-06 SEP 010/012-010/010-020/015

72, and have a nice 3-day weekend,
Paul NA5N

Date: Fri, 3 Sep 1999 23:25:01 -0600 (MDT)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: qrp-l@lehigh.edu
Subject: [49316] Solar for QRP AFIELD
Message-ID: <Pine.SUN.4.10.9909032307100.15680-1000000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

OK ... QRP AFIELD is a couple of weeks away. Two weeks is a magic number for solar forecasting, as the solar flux goes from it's minimum to maximum in about 28-days, or a "half-rotation" in 2 weeks.

RIGHT NOW, solar flux is declining as we're coming off the peak of this rotation. That means 2 weeks from now, we'll be approaching the peak, that is, solar flux will be climbing upwards each day. And since we've been peaking around around 200 lately, this means the solar flux should be in the upper 100's on September 18th for the QRP Afield contest. That's good, because it means the upper bands should be open.

The bad news is higher solar flux, as a result of higher solar activity, means there's a good chance of solar flares during this same time too. This will not affect 20, 15 or 10M (except make them a bit better), but it could adversely affect 40M from a geomagnetic storm. Properly positioned solar flares COULD produce those nasty CME's and shock waves that trigger magnetic disturbances if they strike the earth. So 40M could be kinda noisy.

At this point in time (2 weeks away), I would expect the vast majority of QRP AFIELD contacts will be on 15M and 20M due to the best propagation on those two bands. 40M will not be too fruitful until the very end of the contest period (a bit earlier on the east coast, as they will experience dusk earlier than in the west).

Therefore, I would recommend you concentrate on 15-20M and prepare your rigs and antennas for those bands, and 40M only if you are planning on working up until the whistle blows. Another suggestion would be a 40M dipole or inverted-vee, as this is a good field antenna that is easily loaded on both 40M (1/4 wavelength) and 15M (3/4 wavelength) ... that odd quarter wavelength thing. One antenna for 2 bands to save stuffing your suitcase with too many antennas.

Obviously I'll post the solar and geomagnetic conditions as we get closer to fine tune the forecast and current conditions.

In short, conditions should be pretty darn good for the contest.

72, Paul NA5N

Date: Fri, 3 Sep 1999 22:57:20 -0700
From: "Dave Fifield" <fifield@pacbell.net>
To: "Steve Sorrell" <ap036@detroit.freenet.org>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [49317] Re: K2 screws
Message-ID: <00b901bef69a\$5a33e720\$0100a8c0@pacbell.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Steve,

I tried Phillips but really didn't like the look of them. They looked cheap on the superb anodized cases. I decided the Allen wrench variety looked much neater and luxurious. You don't have a Red Hot Radio NC20 do you? If you did, you'd know that we include the Allen wrench in the kit, so you don't have to go looking for one that fits and you don't need your Victorinox. I'm now going to add the little spring clip to the kit (just a few cents, what's the big deal?) to allow owners to keep it safe and with the rig always, should they ever want to crack it open (rarely, apart from show and tell I'd think).

It is what it is and I'm not changing it. No one who owns one has complained so far...

72, Dave Fifield, AD6A
<http://www.redhotradio.com>

From: Steve Sorrell <ap036@detroit.freenet.org>
> (snip)
> Why are you folks 'locked' into the allen wrench/key thing? (snip)

Date: Sat, 04 Sep 1999 02:02:49 EDT
From: ka7you@juno.com
To: QRP-L@LeHigh.EDU, WSWSS@QTH.NET
Subject: [49318] Want: Manual for HTX-100
Message-ID: <19990903.230351.10175.9.ka7you@juno.com>

I now have two HTX-100 radios, and still no operating manual. I have a copy of the HTX-100 service manual, and can make one of my original Uniden HR-2510 service manual. I would like to trade a copy of one or the other, or cash, for a copy of the HTX-100 operating manual.

The copies of the pictures are not great, but then neither were the originals, however they sure beat nothing at all. They must have used the same cheapo printer.

Thanks,

Rod Johnson KA7YOU from grid CN97AK near Issaquah, Wa.
160M thru 1296 MHz-higher bands pending
ARCI-QRP #7251 QRP-L #844 NWQRP #120 NorCal #2007 and others

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Date: Sat, 4 Sep 1999 00:09:21 -0600 (MDT)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: qrp-l@lehigh.edu
Subject: [49319] QRP AFIELD vs TO THE FIELD
Message-ID: <Pine.SUN.4.10.9909032326110.15680-100000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,
I've noticed the terms QRP AFIELD and QRP TO THE FIELD seem to be used interchangeably as if they are one event. It's not that big of a deal, but realizing there are many new subscribers to QRP-L, I figured it might be worth a little history lesson about these two fun-filled QRP events.

(At least within the resolution of my memory, which can be fallable).

QRP AFIELD was started years ago by the NEQRP club. It was the very first sponsored event to encourage QRPers to "go to the field" ... the Field Day for QRPers of sorts. It is always held in the fall. So the NEQRP club deserves credit for inventing the concept of this well attended contest. The one-in-the-fall is QRF AFIELD. Got it?

Since it generated so much fun and involvement, it only seemed natural there should be another one. So NorCal asked if they could sponsor one in the springtime, which emerged 5 years ago as QRP TO THE FIELD, or simply QRPTTF. So the one-in-the-spring is QRPTTF. Got it?

The NEQRP club is currently a bit inactive, so beginning last year, Dave Benson, NN1G, has sponsored QRP AFIELD on behalf of NEQRP to keep it alive, for which he deserves a lot of credit for taking on such a job (not like he doesn't have anything else to do!). From someone who's done it, trust me, you haven't lived until you're the recipient of 150+ contest logs, trying to check and score them with some level of order and accuracy. Worse than a root canal. Dave needs counseling. :-)
And a big round of applause.

I encourage everyone to consider participating in QRP AFIELD (the one-in-the-fall, like Sept. 18th) and/or QRP TO THE FIELD (the one-in-the-spring). If you're a bit new or rusty with CW/QRP, it's a great way to get on the air with short exchanges and hone up your skills. It's fun working the guys you see on this list. It's fun going off to some field location and setting up a station as if you were Admiral Byrd or someone. It's also a lot of fun to get a couple of fellow QRPers together and make a weekend camping trip or excursion out of it, as the fun you'll have off the air is as fun as on the air.

Doug Hendricks and I have made it a tradition to always meet somewhere for QRP TO THE FIELD (the spring thing) and buddy up with others, and we've always had a blast, and even managed to actually get on the air a bit too. We've kinda been the unofficial NorCal flagship stations with going on the air from some exotic QTH or lame excuse gimmick.

QRPTTF 1996 - from the ghost town of Riley, NM ... joined by Chuck Adams, Tim Pettibone, Jay Miller, Spud-gun Tom, Gary Bonebrake, Brian and Jay Miller's son Jason. Did I mention the wind?

QRPTTF 1997 - operated from near AREA 51 in Nevada, joined by Ron Stark and Bob Follet. Stayed 2 nights in Las Vegas.

QRPTTF 1998 - operated from the NM/TX/MEXICO border in some dingy, remote outskirts of El Paso that nearly became an international incident as we got caught between the US Border Patrol and the Mexican Policia. Joined by Tim Pettibone and Bob and Bertie Hightower.

QRPTTF 1999 - operated from the CA/NV south of Las Vegas between snow

and rain storms, joined by Jan Medley and Doug's xyl Joanne. Stayed two night in Vegas. (Notice how every couple of years we seem to end up in Vegas? Coincidence, I assure you!)

QRPTTF 2000 - can't tell you yet, as it will blow next years theme for QRP To The Field.

The point is, QRP is one of the last bastions of ham radio where that good old fashioned fraternity, friendship and Elmering is still alive. Get together with some fellow QRPers and plan an event centered around the upcoming QRP AFIELD (the fall thing) and enjoy the friendships you'll make on the air and off. This is a hobby, and the fun and friendships we enjoy is what it's all about.

SUMMARY:

QRP AFIELD - the NEQRP in-the-fall thing.

QRP TO THE FIELD - the NorCal in-the-spring-thing.

But if you still get them confused, you won't be kicked off the list or loose your zombie number or anything :-)

72, Paul NA5N

Date: Sat, 04 Sep 1999 02:12:51 EDT
From: ka7you@juno.com
To: n4bp@bc.seflin.org
Cc: qrp-1@Lehigh.EDU
Subject: [49320] Re: Grid Notebook Power Supply
Message-ID: <19990903.231357.10175.10.ka7you@juno.com>

Bob, and the group

All Electronics was selling Grid laptop switchers a while ago for about \$5, as I recall.

They were rated at 17.25 @ 2amps volts, and mine came with an IEE power cord and a 6 foot low voltage cord with coaxial plugs on both ends.

They are built in a steel or aluminum case (which has screws for access), and look like one could drive over it without internal damage.

7 3,

Rod Johnson KA7YOU from grid CN97AK near Issaquah, Wa.
160M thru 1296 MHz-higher bands pending

>

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Date: Sat, 4 Sep 1999 01:15:23 -0500 (CDT)
From: aweiss@usd.edu (Ade Weiss WORSP)
To: qrp-l@lehigh.edu
Subject: [49321] RE: I Love this place!!!!
Message-ID: <199909040615.BAA25577@sunburst.usd.edu>

Hi gang:

For some unknown reason, I just have to tell everyone how much I love the QRP-L!!! Every night a bunch of interesting postings, threads, new insights, theoretical discussion -- you name whatever can be interesting in ham radio and QRP, and you don't have to check in too many nights before someone will bring it up!

You have to remember where I'm coming from -- like I explained in Dayton last year, there are veterans among us who began planting the QRP movement and "growing" it in the late '60's and early 70's. A chat with another QRP'r was an occasion of joy because it was so infrequent. I wrote my **** off for years in CQ (about 180 articles in all) trying to attract hams into QRP. The only bright spot on the horizon was the appearance of SPRAT or the MI QRPC Quarterly, and then finally, the genuine 5w QRP Quarterly. Most of us just waited around, checking the mailbox every day around mailing time, hoping to have some contact with other QRP'rs. We devoured every word first reading, and then read and re-read.

But look at us now! Everyday the QRP-L has tons of stuff -- and what's best, we can reply and participate in a discussion! Incredible.

So, I don't have to really explain why I love this place. It is about the best thing that has happened to my QRP experience in 20years, right behind the Sierra and a rising sunspot cycle!!!

Enjoy it! We are really fortunate that Chuck K7QO got this thing going. We'll never be able to find a way to repay him.

72 to all, Ade

Date: Sat, 4 Sep 1999 16:18:03 +1000
From: Daniel Bartlett <ausham@rocknet.net.au>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>, "'homebrew@qth.net'"
<homebrew@qth.net>
Subject: [49322] Thanks for your help!
Message-ID: <01BEF6F1.11EDC920@rocknet>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Thanks to all who replied to my boatanchors question!
You've got me hooked now - I've been checking out heaps of boatanchor websites!
I didn't know they could become an addiction!

Dan

73 es 72 de Daniel Bartlett, VK4HDB
<http://www.qsl.net/vk4hdb/index.htm>
ausham@rocknet.net.au
1 Goodson Rd, Bouldercombe, Queensland 4702, AUSTRALIA
+61 07 4934 0389
QRP-L #2002

Date: Sat, 4 Sep 1999 01:19:44 -0500 (CDT)
From: aweiss@usd.edu (Ade Weiss W0RSP)
To: qrp-l@lehigh.edu
Subject: [49323] Super VX0 Question
Message-ID: <199909040619.BAA25815@sunburst.usd.edu>

Hi Paul:

I would be very interested in seeing your circuit in QRPP or somewhere
else. What does the output from your VX0 look like? Do you use
any output filtering, buffering? What is the output p-p? And so on.

72 Ade

Date: Sat, 4 Sep 1999 02:40:02 -0400
From: "Ed Tanton" <n4xy@att.net>
To: "North GA QRP" <nogaqrp@qth.net>, "QRP-L Reflector" <qrp-l@Lehigh.EDU>

Cc: "N0BS Tom Moll" <tomm@xata.com>, "Allen Bond WB4GNT" <mgs@avana.net>, "AE4IC Bob Kellogg" <ae4ic@nr.infi.net>,
"AE4GX Sam Billingsley" <sbillingsley@mindspring.com>, "W4OCW Ken"
<w4ocwken@aol.com>, "Rusty Tanton" <rtanton@utk.edu>,
Subject: [49324] FINALLY!!! Got my website up...
Message-ID: <NBBBJDEEIFDDANGEGHLBGEMHGMAA.n4xy@att.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello All... I finally got my website going... it's still pretty crude, with few pictures, but that can and will be remedied. The boatanchor section is non-existent so far-as if the Feedback button. You can fill it out-but it doesn't fly. But the QRP section is a start, as is the photography section. Much more to come.

Thanks to everyone who gave me ideas and suggestions about website programs, and straight html editing. The ONE program that did what I wanted is not very fancy-as you will see. When I called my son Rusty, up at Univ Tenn, he looked at it and said it looked OK... then he (somehow) looked at the straight html it had done, and groaned, LOUDLY. But that's OK... it got the job done. That program is: WebExpress, and you can download a time-limited copy at <http://mvd.com> then if you like it, it's \$70. They'll even give you \$10 off if you decide in 10 days or less.

Many thanks again for all the replies and advice! This is indeed a terrific place (QRP-L)!!

72 / 73 Ed N4XY Elecraft K2 sn: 000057

Ed Tanton N4XY EMAIL: n4xy@arrl.net
189 Pioneer Trail
Marietta, GA 30068-3466 TEL: (770) 971-0436

INTERESTS: *CW (99.5%) *QRP (QRP-L# 758)
*BoatAnchors *Test Equipment *Photography

~~~~~  
"Begin at the beginning... and go on until you come  
to the end: then stop."

The White Rabbit, from "Alice In Wonderland"

~~~~~  
Webpage: <http://www.qsl.net/n4xy/>

Date: Sat, 4 Sep 1999 01:49:18 -0500 (CDT)
From: kc0bdw@webtv.net (Hal Schlotfeld)
To: qrp-1@Lehigh.EDU
Subject: [49325] MFJ-941D
Message-ID: <1836-37D0C0EE-17387@postoffice-212.iap.bryant.webtv.net>
Content-Disposition: Inline
Content-Type: Text/Plain; Charset=US-ASCII
Content-Transfer-Encoding: 7Bit
MIME-Version: 1.0 (WebTV)

Does anyone have a schematic on this tuner? I'm having some trouble with it lately (OK it's not working now but it was a week or so ago). I'm thinking that its the diodes because the SWR/POWER meter has a higher ref then forward reading. If anyone has any ideas on my problem please let me know.

Tnx and 72/73's
Hal

Date: Sat, 4 Sep 1999 01:52:45 -0500 (CDT)
From: kc0bdw@webtv.net (Hal Schlotfeld)
To: qrp-1@Lehigh.EDU
Subject: [49326] QRP PLUS
Message-ID: <1836-37D0C1BD-17396@postoffice-212.iap.bryant.webtv.net>
Content-Disposition: Inline
Content-Type: Text/Plain; Charset=US-ASCII
Content-Transfer-Encoding: 7Bit
MIME-Version: 1.0 (WebTV)

I have someone offering me an Index lab QRP PLUS transceiver. My question on this is what is a fair price? It is in like new condition with power cord, hand mic, and manual. I know that is covers 160-10m in CW and SSB.

Tnx and 72/73's
Hal

Date: Sat, 4 Sep 1999 00:29:24 -0700
From: "Dave Fifield" <fifield@pacbell.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Cc: <ap036@detroit.freenet.org>
Subject: [49327] Apology to Steve Sorrell
Message-ID: <001201bef6a7\$36f8d100\$0100a8c0@pacbell.net>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Steve,

Let me apologize for my tone in that last email. It came out much harsher than I ever meant it to! Strange what email can do to your intentions isn't it? Perhaps we should have a mandatory half-hour posting delay built-in to the system, with a "whoops" feature to let you retrieve the bad ones before they get out! The old IBM profs system used to have just that feature ("oops" it was called) and it was used frequently as I recall!

Anyway, if I had spent half-a-minute reading your email properly, I would see that you do indeed have a RH NC20 and you **are** complaining about the screws!

Steve, I do have some black flat head jobs with Phillips slots that fit the NC20, so if you like, by way of an apology, I'll send you a set, gratis. Let me know.

Me and my big mouth....
72, Dave Fifield, AD6A

Date: Sat, 04 Sep 1999 03:32:43 -0400
From: Pete Burbank <plburbank@kih.net>
To: <qrp-l@Lehigh.EDU>
Subject: [49328] RE: I Love this place!!!!
Message-ID: <3.0.32.19990904033120.00730a18@kih.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 01:15 AM 9/4/99 -0500, you wrote:

>Hi gang:

>

>For some unknown reason, I just have to tell everyone how much
>I love the QRP-L!!!! Every night a bunch of interesting postings,
>threads, new insights, theoretical discussion -- you name whatever
>can be interesting in ham radio and QRP, and you don't have
>to check in too many nights before someone will bring it up!
>etscnp

Dear Ade,

You got it right OM and it's not an unknown reason. I remember the

thrill of working into England with less than 2 Watts to a 2N706
in the '60s.
Hopefully the big muscle rigs are history. I do switch my trusty
old Argosy up to 40 watts when things get rough or to save the
ears on the other end but usually can work the world with 5 watts.
QRP-L is a great forum and a great bunch of people.
I hope to CUAGN on 30 meters (but DON'T tell anybody what a neat band that
is).
All the best..73...Pete NV4V vvvvv

Date: Sat, 4 Sep 1999 07:28:46 -0400 (EDT)
From: Bob Patten <n4bp@bc.seflin.org>
To: ka7you@juno.com
Cc: qrp-l@Lehigh.EDU
Subject: [49329] Re: Grid Notebook Power Supply
Message-ID: <Pine.3.89.9909040749.H20188-0100000@bc.seflin.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sat, 4 Sep 1999 ka7you@juno.com wrote:
>
> All Electronics was selling Grid laptop switchers a while ago for
> about \$5, as I recall.
> They were rated at 17.25 @ 2amps volts, and mine came with an IEE
> power cord and a 6 foot low voltage cord with coaxial plugs on both ends.
>
Sounds interesting, Rod, I'll take a look through their catalog.

73,

Bob Patten, N4BP (0 0) Plantation, FL
-----o00o-()-o00-----

E-Mail: n4bp@bc.seflin.org
Web Page: <http://wg104a.wh.uni-stuttgart.de/~n4bp>
Brass Pounder BBS: (954) 472-7715

Date: Sat, 04 Sep 1999 08:34:33 -0400
From: Paul Kaczmarek <catmandu@freewwwweb.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [49330] Re: Proximity Switched Keyer
Message-ID: <37D111D9.86A@freewwwweb.com>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

This may have already been mentioned but I looked up an article in the QRPp archive from the Volume IV, Number 4 Dec 1996 page 44 "A Piezo-Electric Key" by Glen Leinweber VE3DNL. It uses Piezo buzzer elements that Glen calles "piezo benders" (it took a while to be sure he meant common piezo buzzer elements.) The circuit uses little power, is simple and the elements if mounted to the rig or block mounted on the rig would provide a rugged, waterproof trail friendly keyer, it could also be used by the bicycle mobile hams.
I hope this helps.

Paul, KB2TPA <>< Sierra, TT Argosy, Cheektowaga NY (Pepperdog)
"The value of advice is in its use."

Date: Sat, 4 Sep 1999 08:21:48 EDT
From: K2UD@aol.com
To: qrp-l@lehigh.edu
Subject: [49331] Re: need pics immediately
Message-ID: <e3557b89.250268dc@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

The latest Radio Shack catalog shows 13 different pics available through their RSU number. That is, mailed to your door in a couple of days.

I've ordered parts from them this way before, usually arrive in a few days like they said.

GL

Howard Kraus, K2UD

Date: Sat, 04 Sep 1999 08:39:49 -0400
From: Michael Bower <bowerm@ix.netcom.com>
To: qrp-l <qrp-l@lehigh.edu>
Subject: [49332] DSW-40 tuning question
Message-ID: <37D11315.7627DAFA@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I seem to recall that there is a mode on the DSW-40 where one can push a button a certain way, "key in" a frequency and then the radio will tell you when it is on that frequency.

Is this true or was I dreaming this? (It was really late last night when I finished the rig so I certainly may have been dreaming. (My thoughts on the kit later after I've gotten some sleep. Nice kit.)

TIA

Michael - N4NMR

Date: Sat, 04 Sep 1999 08:34:31 -0500
From: Stan Wilson <microres@crl.com>
To: qrp-1@Lehigh.EDU
Subject: [49333] All Electronics and similiar firms question
Message-ID: <37D11FE7.43E8@crl.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Does All Electronics or a similar firm have a web page.

I have checked a couple of the web ham link lists, but do not seem to find any commerical type surplus electronics.

? Thanks

Date: Sat, 4 Sep 1999 08:40:36 -0500
From: "Dan W. Dooley" <dandooley@pipeline.com>
To: <plburbank@kih.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [49334] RE: I Love this place!!!!
Message-ID: <000601bef6db\$119b6560\$04987b7b@dooleydw>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I remember the thrill I had of working into Japan with a converted CB set on ten meters. About three watts AM at around 29MHz. That was back around 1978. The antenna was a TH6DXX at about 70 ft. Followup is that I no longer live at that site, can't get a tower nearly that tall now (max 35 ft) and the old radio has broken down and I've never gotten around to fixing it.

Some day ... sigh...

Dan WB5TKA

> -----Original Message-----

> From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of

> Pete Burbank

> Sent: Saturday, September 04, 1999 2:33 AM

> To: Low Power Amateur Radio Discussion

> Subject: RE: I Love this place!!!!

>

>

> At 01:15 AM 9/4/99 -0500, you wrote:

> >Hi gang:

> >

> >For some unknown reason, I just have to tell everyone how much

> >I love the QRP-L!!!! Every night a bunch of interesting postings,

> >threads, new insights, theoretical discussion -- you name whatever

> >can be interesting in ham radio and QRP, and you don't have

> >to check in too many nights before someone will bring it up!

> >etsnip

>

> Dear Ade,

> You got it right OM and it's not an unknown reason. I remember the

> thrill of working into England with less than 2 Watts to a 2N706

> 1n the '60s.

> Hopefully the big muscle rigs are history. I do switch my trusty

> old Argosy up to 40 watts when things get rough or to save the

> ears on the other end but usually can work the world with 5 watts.

> QRP-L is a great forum and a great bunch of people.

> I hope to CUAGN on 30 meters (but DON'T tell anybody what a neat

> band that

> is).

> All the best..73...Pete NV4V vvvvvv

>

Date: Sat, 04 Sep 1999 06:57:57 -0700

From: Phil Wheeler <w7ox@mindspring.com>

To: bowerm@ix.netcom.com

Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [49335] Re: DSW-40 tuning question

Message-ID: <37D12565.F14BBDB5@mindspring.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

I think the Wilderness KC-1 accessory does that; just building the DSW-20, but I do not recall such a feature in reading the manual.

Phil

Michael Bower wrote:

>
> I seem to recall that there is a mode on the DSW-40 where one can push a
> button a certain way, "key in" a frequency and then the radio will tell
> you when it is on that frequency.
>
> Is this true or was I dreaming this? (It was really late last night
> when I finished the rig so I certainly may have been dreaming. (My
> thoughts on the kit later after I've gotten some sleep. Nice kit.)
>
> TIA
>
> Michael - N4NMR

Date: Sat, 04 Sep 1999 07:08:03 -0700
From: Phil Wheeler <w7ox@mindspring.com>
To: dave_castor@easypower.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [49336] Re: SWR/Wattmeter Homebrew or Kit?
Message-ID: <37D127C3.EB0CE23@mindspring.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Oak Hills WM-2 from Morse Express.

<http://www.morsex.com>

1-800-238-8205

Phil

David Castor wrote:

>
> I hope this hasn't been asked and answered too many times in the past, but
> I'd like to know if anyone can recommend a good SWR meter and/or Wattmeter
> kit?
>
> Thanks,

>
> Dave, AB7ZV

Date: Sat, 04 Sep 1999 10:12:44 EDT
From: charles k brown <n4so@juno.com>
To: qrp-1@lehigh.edu
Subject: [49337] MFJ Enterprises info numbers
Message-ID: <19990904.141127.6959.3.n4so@juno.com>

Several questions recently on MFJ products. They have a tech line and from previous posts you can call them for help or assistance and they will answer your questions. I have asked them about circuit info in the past, and they have responded with advice.

mfj@mfjenterprises.com
WEB <http://www.mfjenterprises.com>
FAX 601 323 6551
1-800 647 1800 Free catalog
Tech line 1 800 647 8324
Tech Help 1 601 323-0549

MFJ 90's Newsletter-
Pub. spring, summer, fall, winter
Edited by Paul Harden NA5N@rt66.com

nnnn

Ken Brown N4SO
Mobile, AL/EM50tk
NorCal-20/5 watts/4 ele. beam

Get the Internet just the way you want it.
Free software, free e-mail, and free Internet access for a month!
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

Date: Sat, 4 Sep 1999 07:15:34 -0700
From: Bob Nielsen <nielsen@primenet.com>
To: qrp-1@lehigh.edu
Subject: [49338] Re: BIG capacitors
Message-ID: <19990904071534.C3361@bob.localnet>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii

I remember my high school physics teacher (W7TSZ) telling us about big capacitors. He said one farad would be as big as the classroom (in 1956).

Bob, W6SWE

--

Bob Nielsen Internet: nielsen@primenet.com
Tucson, AZ AMPRnet: w6swe@w6swe.ampr.org
DM42nh http://www.primenet.com/~nielsen

Date: Sat, 04 Sep 1999 09:13:03 -0500
From: Dave Sjolin <sjolin@swbell.net>
To: microres@crl.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [49339] Re: All Electronics and similiar firms question
Message-ID: <37D128EF.C3A5574C@swbell.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

Stan Wilson wrote:

>
> Does All Electronics or a similar firm have a web page.

<http://www.allelectronics.com/>

73 de Dave, N0IT

Date: Sat, 04 Sep 1999 10:47:02 -0400
From: "Jerry W. O'Dell" <jwodel@ameritech.net>
To: qrp-l@lehigh.edu
Subject: [49340] levels of qrp
Message-ID: <4.2.0.58.19990904104313.0096e840@mailhost.det.ameritech.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I have often wondered if there are splinter groups for the qrp people. For example, I don't really regard 5 watts as qrp. I might accept 500 milliwatts. That's simply because I ran about 5 watts out of my silly little 6L6 rig when a kid. Worked just like 50 watts

Are there lists for, say (1) 1-5 watts
(2) 100-1000 milliwatts
(3) less than that.

```
73 jerry w8gnd
```

As advertised in Nuts and Volts magazine. Mar. p 49
http://www.allcorp.com
allcorp@allcorp.com
They sell switching power supplies, wall transformers, and lots of
other items.

Get the Internet just the way you want it.
Free software, free e-mail, and free Internet access for a month!
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

To: QRP-L@lehigh.edu
Subject: [49342] VELLEMAN kits
Message-ID: <19990904.144911.2207.2.n4so@juno.com>

This company sells simple, small kits like a signal generator, and a 2.5 watt audio power amplifier. I understand the kits originate from Belgium. Most of the kits are powered from a 9 volt battery and have 20 to 30 parts or pieces. They have various U.S. distributors, (like TechAmerica?) and there is a large variety of available kits to choose from.

<http://www.velleman.be>
^^

These kits are good to practice on before ordering the Elecraft K2.

VELLEMAN
7415 Whitehall St. Suite 119
Fort Worth, TX 76118
817- 284 7785
Fax 817 284-7712
velleman@earthlink.net
nnnn

Get the Internet just the way you want it.
Free software, free e-mail, and free Internet access for a month!
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

Date: Sat, 4 Sep 1999 11:06:09 -0400
From: hamjoel@juno.com
To: qrp-l@lehigh.edu
Subject: [49343] RE Levels of Qrp
Message-ID: <19990904.110610.-306305.0.hamjoel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

High everyone and anyone

Now there is a topic that could clog the email server... Levels of QRP depending on one's level of tolerance for long periods of no replies and the effectiveness of one's antenna. a level called qrp varies... from micro watts to 5 watts...

I like 5 watts and a good antenna... this allows me to get on the air most anytime and make contacts in most any mode from sstv to cw with reports of 5x5 or 4x4... no strain on the receiving end of my signal... on occasion I have made 1/4 watt ssb contacts with 33 or 44 reports...

mostly I "qrp" at 5 watts and except for sstv get few complaints on my signal....

So I would say, yes, there are many levels of qrp with avid convictions on where the level turns into qro... makes for an interesting world...

Joel KE1LA

In Maine

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Free software, free e-mail, and free Internet access for a month!

Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

Date: Sat, 4 Sep 1999 15:14:09 +0100

From: "Steve Sorrell" <ap036@detroit.freenet.org>

To: <fifiield@pacbell.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [49344] Re: Apology to Steve Sorrell

Message-ID: <002101bef6df\$c2269180\$d842b3c7@sorrells>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Dave,

No offence was noticed or taken, you are entitled to your opinion and my opinion is mine only. You do not have to send me phillips screws Dave, my original 'white' screws have been modified, he he.

I think we've all had enuf of this thread. :-)

72 de Steve, W8SFF

Date: Sat, 4 Sep 1999 10:18:41 -0500 (CDT)

From: ac5ez@webtv.net (Larry B)

To: qrp-l@lehigh.EDU

Subject: [49345] qrp fans

Message-ID: <9800-37D13851-13964@postoffice-112.iap.bryant.webtv.net>

Content-Disposition: Inline

Content-Type: Text/Plain; Charset=US-ASCII

Content-Transfer-Encoding: 7Bit

MIME-Version: 1.0 (WebTV)

There are many qrp hams out there not on qrp-l .For example W5BLR has 300 stateside qso's on 30 meters with his nc38s to a mfj loop at 20 feet plus 30 dx stations with the same set up . I wonder how many more qrp fans are out there that we dont know much about ?

Date: Sat, 4 Sep 1999 11:16:54 -0000
From: "David Benson" <nn1g@earthlink.net>
To: <jaywa5whn@juno.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [49346] Re: QRP AField in a few weeks
Message-ID: <007101bef6c7\$90232620\$f291173f@pavilion>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

gang-

>>From the people who had given us lighthouses, the wrong pronouncation of
>the word "route", clam chowder, toll booths on I-495, Michael Dukakis and
>in a few weeks, that classic QRP contest "QRP AField" {Contest Manager:
>NN1G, email: dave@smallwonderlabs.com }

And let's not forget Rhode Island! For those who'd successfully forgotten,
my humblest apologies. ;-)

Thanks to Paul Harden, NA5N, for a wonderful history on the topic, and to
others for posting their plans- sounds like you've got some great
destinations for the outing!

I'll be backpack-portable for the first time this year. I've got my eye
on a large (200') clearing next to a beaver pond in National Forest in
Vermont. Judging by the signs we've seen on a previous outing to this
location, chances of seeing deer and moose are pretty good. I'll be on
20M for sure and probably 40M as well.

I'll repost the rules later on this weekend. A summary of the rules can
also be found at

<http://eichhoff.com/neqrp/>

72- Dave Benson, NN1G

Date: Sat, 4 Sep 1999 11:22:43 EDT
From: K2UD@aol.com
To: qrp-1@lehigh.edu
Subject: [49347] Free PCB jumpers
Message-ID: <39341ebf.25029343@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

In the "I can't just throw it out" department, I have 32 PCB jumpers to give away. NC-20 and Red Hot 20 builders take note. Also you guys who lost your jumper from your Rainbow Tuner in the grass this summer.

These are the small plastic insulated, open top, 2 pin jumper that you push down on a 2 pin socket mounted to the board. The one you use to select AFA options in the NC-20 and the Red Hot, and the same one you use to select inductance taps in the Rainbow Tuner.

Want one, let me know. It will only cost you a stamp. Want more, let me know. But LET ME KNOW first so I can tell folks to stop sending stamps! I'll e-mail anyone who wants one with my address, and announce the cut-off.

I call this the Great Summer 1999 PCB jumper giveaway, otherwise know as clean the darn workbench.

72 all,

Howard Kraus, K2UD

Date: Sat, 4 Sep 1999 10:28:55 -0500
From: "Nick Kennedy" <nkennedy@cswnet.com>
To: <nielsen@primenet.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [49348] Re: BIG capacitors
Message-ID: <001d01bef6ea\$3423e3a0\$747054d8@big>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Yeah, this thread reminded me of a cartoon in one of the ham magazines years ago. A guy is looking out the window at a truck delivering a 1 Farad capacitor he'd mistakenly ordered instead of one microfarad. The truck is a tanker truck, only the tank is a giant capacitor with "1 farad" painted on its side.

'course, when I went to college "the computer" (there was one on campus), took up a whole room.

72E-6,

Nick, WA5BDU

-----Original Message-----

From: Bob Nielsen <nielsen@primenet.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Saturday, September 04, 1999 9:16 AM
Subject: Re: BIG capacitors

>I remember my high school physics teacher (W7TSZ) telling us about
>big capacitors. He said one farad would be as big as the classroom
>(in 1956).

>

>Bob, W6SWE

>

>--

>Bob Nielsen Internet: nielsen@primenet.com
>Tucson, AZ AMPRnet: w6swe@w6swe.ampr.org
>DM42nh http://www.primenet.com/~nielsen
>

Date: Sat, 04 Sep 99 11:33:50 -0400
From: chuck.olson@sbaonline.gov
To: qrp-l@lehigh.edu
Subject: [49349] SUPER VXO QUESTION
Message-ID: <9909041133.A0546wk@sbaonline.gov>
Content-Type: text

I was looking at page 106 of the manual for the Elecraft K2. They use a super VXO circuit in the reference oscillator for the PLL. The PLL is used to provide tuning in 5 kHz steps - the super VXO is used to provide the fine 10 Hz steps. A really neat circuit - I always wondered how a designer solves the various PLL issues with 10 Hz tuning steps - now I know an elegant solution.

I noticed that DC Electronics (forgot the URL) has a couple of PLL based, PIC controlled VFO kits for sale - as I recall, prices were \$35

or \$40 which seems quite reasonable, but the tuning steps were 10 kHz - maybe a super VX0 mod for the reference oscillator is called for ;)

Best Regards,

Chuck, WB9KZY

Jackson Harbor Press - <http://home.att.net/~jacksonharbor>

Date: Sat, 4 Sep 1999 08:52:03 -0000
From: "Roger A. McCarty" <rmccarty@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [49350] RE: BIG capacitors
Message-ID: <000c01bef6b2\$c211a360\$0100000a@accurate-main>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I remember that Cartoon! Of course today, a 1 farad capacitor (@ 5v) is about the size of 4 or 5 stacked quarters. They are used regularly in EPROM back-up supplies in consumer electronics equipment.

Roger

-----Original Message-----
From: owner-qrp-1@Lehigh.EDU
[mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of
Nick Kennedy
Sent: Saturday, September 04, 1999 3:29 PM
To: Low Power Amateur Radio Discussion
Subject: Re: BIG capacitors

Yeah, this thread reminded me of a cartoon in one of the ham magazines years ago. A guy is looking out the window at a truck delivering a 1 Farad capacitor he'd mistakenly ordered instead of one microfarad. The truck is a tanker truck, only the tank is a giant capacitor with "1 farad" painted on its side.

'course, when I went to college "the computer" (there was

one on campus),
took up a whole room.

72E-6,

Nick, WA5BDU

-----Original Message-----

From: Bob Nielsen <nielsen@primenet.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Date: Saturday, September 04, 1999 9:16 AM
Subject: Re: BIG capacitors

>I remember my high school physics teacher (W7TSZ) telling
us about
>big capacitors. He said one farad would be as big as the
classroom
>(in 1956).
>
>Bob, W6SWE
>
>--
>Bob Nielsen Internet: nielsen@primenet.com
>Tucson, AZ AMPRnet: w6swe@w6swe.ampr.org
>DM42nh
><http://www.primenet.com/~nielsen>
>

Date: Sat, 4 Sep 1999 11:04:16 -0500 (CDT)
From: kc0bdw@webtv.net (Hal Schlotfeld)
To: qrp-1@Lehigh.EDU
Subject: [49351] Help on MFJ 941D
Message-ID: <1853-37D14300-2597@postoffice-212.iap.bryant.webtv.net>
Content-Disposition: Inline
Content-Type: Text/Plain; Charset=US-ASCII
Content-Transfer-Encoding: 7Bit
MIME-Version: 1.0 (WebTV)

Thanks for the help everyone.
Hal

Date: Sat, 04 Sep 1999 12:05:58 -0400
From: VE3JC - John C <jbcumming@wwdc.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>, QRP-CANADA <qrp-canada@lists.gpfn.sk.ca>
Subject: [49352] FS: Classic Powermite PM3A station
Message-ID: <37D14366.C2D5ECDB@wwdc.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I have one too many rigs in my "Powermite" Collection, so I am selling this PM3A, along with several accessories.

The PM3A works well, with in excess of 2 W output on both 40 and 20 as measured on my WM-2. Cosmetically, the front panel is very good, and the "pin-type" headphone connectors have not been modified. The aluminum top has some scratches in the original paint, but no holes. The previous owner etched his social insurance number discreetly on the inside of the top. There are three drilled holes in the side woodgrain plastic pieces (one 1/2" hole on the left panel, 2 1/8" holes in the right panel) but these could be filled and covered with woodgrain "mac tac".

You can see pictures of the rig under the "Power-mite 3a (Silver knobs)" section of my Ten tec page at:
<http://www.geocities.com/CapeCanaveral/Lab/7378/powermite.html>

I am also including a pair of antique Hi-z headphones ("Camco Grand" brand) with the knurled pins that mate with the powermite. The cord of the headphones is frayed, but they work well with the PM3a

Also included is an AC5 matching antenna tuner. Original alligator clip leads have been replaced with clip-on test leads, which provide finer "resolution" when clipping on the coil. However, if you're a "purist" you could easily put alligator clips back on.

Additionally, I will include a copy of the manual, plus some article and ad reprints concerning the powermite rigs.

This is not a "pristine" collector's PM rig, but if you would like the experience of working a classic QRP rig, and hearing DC CW sigs through Hi-Z phones, you will have fun with this.

Will sell for \$US 130, which includes shipping in North America.

72, John VE3JC

Date: Sat, 04 Sep 1999 12:14:56 EDT
From: charles k brown <n4so@juno.com>
To: qrp-l@lehigh.edu
Subject: [49353] Boatanchors // ELECTRIC RADIO
Message-ID: <19990904.161340.7367.1.n4so@juno.com>

BOATANCHORS- vintage radios

Some questions recently on boatanchors. They have their own magazine called Electric Radio, usually is about 50 pages and material is supplied by readers, collectors, restorers. Classified advertising runs about 15 pages for vintage equipment only. There are also Vintage Nets (about 28 listed) such as the SWAN Users Net - 14.250 Sundays 4 PM central time, net control WA9AZK.

Edited by Barry Wiseman N6CSW
Electric Radio/ celebrating a bygone era
14643 County Road G
Cortez, CO 81321-9575
Phone/Fax 970- 564-9185
e-mail: er@frontier.net
nnnn

Ken Brown N4SO
Mobile, AL/EM50tk
NorCal-20/5 watts/4 ele. beam

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Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

Date: Sat, 4 Sep 1999 12:33:21 -0400
From: hamjoel@juno.com
To: qrp-l@lehigh.edu
Subject: [49354] QRP-L FIRST!!! 3 IN 1
Message-ID: <19990904.123323.-447217.0.hamjoel@juno.com>

MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

hiGH GANG

if my message is a bit incoherent please excuse as I am very excited....

WILL THE QRP-L AWARDS MGR PLEASE EMAIL ME... PRONTO.... IF CONVIENT FOR
U

I DID IT,,, I DID IT ON FORTY METERS JUST NOW]

i MADE 3 SSTV QRP 1KMPW CONTACTS IN ONE TRANSMISSION.... >.1WATTS OUT
i THINK I DID A FIRST... HIP HIP AND ALL THAT FOR ME....AND QRP....

PLEASE EXCUSE AS I AM A BIT EXCITED... CAN'T BEAT THOSE WIRE ROPE
ANTENNAS... OH MY CAJUN MAMA IS SO HAPPY.... FILET GUMBO TONITE...

Joel KE1LA

In Maine

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Free software, free e-mail, and free Internet access for a month!
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

Date: Sat, 04 Sep 1999 09:33:49 -0700
From: Bruce Grubbs <bog@flagstaff.az.us>
To: qrp-l@LeHigh.edu
Subject: [49355] FS: Hustler mobile antenna system
Message-ID: <3.0.5.32.19990904093349.009e6cb0@mail.infomagic.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello gang,
The shack cleaning continues... I have a complete Hustler mobile antenna
system that I'd like to sell as a unit.

BM-1 bumper mount
MO-2 fold over mast
QD-2 quick disconnect
9 resonators covering all bands 80-10, including 75m and WARC

The bumper mount has some rust on the mounting clamp but is perfectly
servicable. Everything else is in very good condition.

I'm asking \$150, and I'll pay UPS ground in the 48 states.

Bruce, N7CEE
DM45ee
Flagstaff, Arizona USA
bog@flagstaff.az.us

Date: Sat, 04 Sep 1999 12:43:13 -0400
From: semann@tcia.net (Steven Mann)
To: qrp-1@lehigh.edu
Subject: [49356] Re: MFJ and Vectronics
Message-ID: <37D14C21.1DC90977@tcia.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Due to the several comments posted on MFJ's quality control and service I'm sharing my experience.
MFJ owns Vectronics. I purchased the VEC645 Mobile Antenna Tuner (I use it at home) that has been on sale in the TechAmerica fliers.

Initially the unit didn't work. Although the cabinet had been machined for 4 screws to hold the cover on, there were only two in the unit leaving two empty holes.

I opened the cabinet and found that "hot" side of the coil wire was touching the mounting bracket causing a short to ground across the complete coil. I relocated the lead with a push of my finger and the problem was eliminated. The 2 cabinet screws...replaced from the junk box.

The tuner works fine allowing me to load a 20m dipole from 160 through 10 meters. It's a "T" network with a built in lighted SWR Wattmeter. The calibration tracks well with my Autek WM-1.

Definitely worth the small price!

I didn't like the DC voltage connector (for the lighted meter) on the back of the unit as it was a different size from the other connectors that I use.

So with a drill and a hand file I changed the hole in the cabinet to mount a different connector.

Unfortunately my file hit the small bifilar winding on the SWR toroid and broke them. Efforts to rewind based on observing the broken windings produced poor results...it worked but the calibration no longer tracked.

I spoke with the Vectronics people explaining that it was my fault and that I wanted to purchase a new wound toroid.

AT NO CHARGE TO ME they sent me a new one with a hand drawn diagram on how to connect it to the circuit board.

I am pleased with Vectronics/MFJ and will definitely do more business with them in the future.

Steve N4EY

Date: Sat, 4 Sep 1999 12:46:24 -0400
From: "Alex Mendelsohn" <ai2q@ispchannel.com>
To: <k5zty@juno.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [49357] RE: 3D2QB
Message-ID: <000001bef6f5\$06228aa0\$5c32a7d0@mendelsohn.ispchannel.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Tidbit: His name is spelled with two "Ls."

> -----Original Message-----
> From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of
> k5zty@juno.com
> Sent: Friday, September 03, 1999 6:58 PM
> To: Low Power Amateur Radio Discussion
> Subject: Re: 3D2QB
>
>
> That's Alan of Fiji, His manager is SM3CER if you want a card.
>
>

Date: Sat, 04 Sep 1999 13:03:08 EDT
From: ka7you@juno.com
To: QRP-L@LeHigh.EDU, WSWSS@QTH.NET

Subject: [49358] NO MORE OFFERS-PLEASE!

Message-ID: <19990904.100427.25007.14.ka7you@juno.com>

Thanks to everyone for the multiple offers for the HTX-100 manual, and to Bruce for the obvious answer to go direct to Radio Shack for a copy-I had not even thought of that since it is so long out of production.

My request has been handled.

7 3,

Rod Johnson KA7YOU from grid CN97AK near Issaquah, Wa.

160M thru 1296 MHz-higher bands pending

ARCI-QRP #7251 QRP-L #844 NWQRP #120 NorCal #2007 and others

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Date: Sat, 04 Sep 1999 10:31:42 -0600

From: tom whalen <wb5qyt@eFortress.com>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [49359] Velleman kits

Message-ID: <37D1496E.33D5@eFortress.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Gang,

I have built 3 of the Velleman kits(auto alarms). There boards are first rate, good instructions, and quality parts. Would highly recommend them as a first kit.

Just for info....no way affiliated, just a satisfied customer.

72, Tom WB5QYT..."Have spud will travel!"

Date: Sat, 4 Sep 1999 14:02:22 -0400

From: "Ed Tanton" <n4xy@att.net>

To: "QRP-L Reflector" <qrp-l@Lehigh.EDU>

Subject: [49360] Tektronix Applic Note: The ABCs of Oscilloscopes

Message-ID: <NBBBJDEEIFDDANGEGHLBCENFGMAA.n4xy@att.net>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello All... I was browsing around today and noticed a great Application Note within the Tektronix website. It's called "The ABCs of Oscilloscopes" and can be found at:

<http://www.tek.com/Measurement/scopes/index.html>

My apologies if this has been mentioned before.

72 / 73 Ed N4XY Elecraft K2 sn: 000057

Ed Tanton N4XY EMAIL: n4xy@arrl.net
189 Pioneer Trail
Marietta, GA 30068-3466 TEL: (770) 971-0436

INTERESTS: *CW (99.5%) *QRP (QRP-L# 758)
*BoatAnchors *Test Equipment *Photography

~~~~~  
"Begin at the beginning... and go on until you come  
to the end: then stop."

The White Rabbit, from "Alice In Wonderland"

~~~~~  
Webpage: <http://www.qsl.net/n4xy/>

Date: Sat, 04 Sep 1999 11:17:02 MST
From: "Chuck Adams, K7QO" <k7qo@hotmail.com>
To: aweiss@usd.edu
Cc: qrp-l@lehigh.edu
Subject: [49361] RE: I Love this place!!!!
Message-ID: <19990904181702.51728.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Ade,

Thanks for the kind words.

The only repayment that I ask for is that everyone mind their P's and Q's and post items of or relating to QRP and that contribute to the growth. And not include all of

previous posts... :-)

We have entered a new era in communications, although not via the ether where most of us still enjoy ham radio, via the internet. I wrote in a book in 1975 predicting this obvious evolution of technology. Maybe I can scan the chapter in and put it on my web page. It was funny at the time and now it's scary....

Again, the basic generosity of the QRP-L crowd has been and I hope it continues to be "pass it on". Someone does something for you then it's your turn to do something in kind for someone else.

FYI es dit dit

Chuck Adams K7QO CP-60 k7qo@hotmail.com <http://www.qsl.net/k7qo>

Get Your Private, Free Email at <http://www.hotmail.com>

Date: Sat, 04 Sep 1999 14:22:05 EDT
From: n5ib@juno.com
To: qrp-l@Lehigh.edu
Subject: [49362] OT - military surplus euqipment
Message-ID: <19990904.131209.4767.0.N5IB@juno.com>

In cleaning out a file in the shack I found the following "fireside reading" material:

article reprint: "A Surplus Gold Mine" describing the conversion of the Collins R-105/ARR-15 HF aircraft receiver, source and date unknown

addendum: "Conversion on ARR-15 as per N0GB0 & N0YZM (K5SKA) [Navy MARS calls] this is a one page instruction sheet about the ARR-15

article copy: "Callibrating a BC-221 Frequency Meter" from March 1950 QST

article copy: "Interpolation Frequency Measuremenys with the BC-221" also from QST, date unknown

If anyone wants this info a SASE with two stamps and its yours. Just e-mail me direct. If I get a bunch requesting, I'll make some copies.

Jim N5IB

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Date: Sat, 04 Sep 1999 11:31:41 MST
From: "Chuck Adams, K7Q0" <k7qo@hotmail.com>
To: K2UD@aol.com, qrp-1@Lehigh.EDU
Subject: [49363] Re: Free PCB jumpers
Message-ID: <19990904183141.54085.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Berg Connectors is the technical name for these critters.

Trivia 101.

Chuck Adams K7Q0 CP-60 k7qo@hotmail.com <http://www.qsl.net/k7qo>

Get Your Private, Free Email at <http://www.hotmail.com>

Date: Sat, 4 Sep 1999 12:01:07 -0700
From: "Mike Silva" <mjsilva@jps.net>
To: <ausham@rocknet.net.au>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [49364] Re: Thanks for your help!
Message-ID: <001601bef707\$d9d80fc0\$dec5efd1@compaq>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Daniel and others,

Don't forget that you can also homebrew your own boatanchors (and QRP canoe anchors as well). The glowbugs reflector at Glowbugs@piobaire.mines.uidaho.edu is where such deviants (myself included!) hang out <g>. Believe it or not, the world is still full of useful tubes

that can be had for much less, considering inflation, than they cost new (often a buck or less!).

73,
Mike, KK6GM

>Thanks to all who replied to my boatanchors question!
>You've got me hooked now - I've been checking out heaps of boatanchor websites!
>I didn't know they could become an addiction!
>
>Dan

Date: Sat, 4 Sep 1999 14:17:26 +0000
From: "Steven Weber" <kd1jv@moose.ncia.net>
To: qrp-l@lehigh.edu
Subject: [49365] Re: levels of qrp
Message-ID: <199909041859.0AA29990@moose.ncia.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

> There may not be, in case which ignore all above, but as I always
> say, the fella I worked running 100 microwatts has my respect.
>
> 73 jerry w8gnd

Anyone who can hear a 100 uW signal has my respect too :-)

72,
Steve, KD1JV in the white Mountains of New Hampshire
"melt solder"

Date: Sat, 04 Sep 1999 15:19:07 +500
From: Terry Bendell <terryb@bmts.com>
To: <qrp-l@Lehigh.EDU>
Subject: [49366] Re: Cubic Astro 150A - Thanks Gang
Message-ID: <199909041914.PAA27612@Alice.BMTS.Com>
MIME-Version: 1.0

Thanks for all the great Help with this older rig gang, I bought it and am going to try to figure out how to modify it for WARC Band use if possible. No manual or schematic so it should be fun. Should make a pretty good qrp rig once I get to the mods. Thanks once again and I will keep you posted on this item.

73

Terry

Date: Sat, 4 Sep 1999 15:23:04 -0400
From: Bill B Lazure <n2tpa@juno.com>
To: QRP-L@Lehigh.EDU
Subject: [49367] Another 2N2/40 Lives!!
Message-ID: <19990904.152323.7246.1.N2TPA@juno.com>

Gang,

It took two weeks, two versions, and a few modifications. My 2N2/40 works pretty darned well. First one I built was my test model. I only had 4.19 MHz xtals around, so I used them. That caused alot of parts juggling in the VFO, IF, and BFO stages. After several days of reconfiguring circuits, and swapping dozens of parts, the first board was looking pretty ugly.

Once all the mods were installed and working well, I made my second board for "beauty". Not only does it play well, it looks pretty sweet too.

I found an old coax modem chassis that I'd acquired years ago. I looks like it was custom made for this project. A few hours drilling and mounting, and I expect this'll rival any commercial rig.

Thus far, the ENTIRE rig has been built from my junkbox. I haven't purchased a single thing including the chassis.

If the rig's been modified, does it still count for a certificate?

Hope to catch some of you on the air next week when the rig's all packaged and ready to run for real!

Bill
W2EB

P.S. I've found that the IF amp oscillates worse when I do the "anti-oscillation" modification. It's pretty picky when built as originally designed, but doesn't oscillate anywhere near as bad as when I do the modification. Anyone have any ideas?

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Date: Sat, 4 Sep 1999 14:16:16 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: Low Power Group <qrp-1@LeHigh.EDU>, QRP-Canada <qrp-canada@lists.gpfn.sk.ca>
Subject: [49368] technical question
Message-ID: <Pine.LNX.3.95.990904140327.10674A-1000000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I just purchased some ni-cads for my handheld which I have been operating using alkalines...I found a Ni-Cad battery charger called an EXCELL, model EX-01 (might be from Radio Shack a number of years ago)....looks like it will accomodate 4 AAs or 2- 9v batteries...it says it's for ni-cads only...the output is listed as 2.4v/9v at 140 ma...

...the recommended charge rate as listed on the package for the ni-cads is 70ma for 14-16 hours or 210ma for 4/5 hours.....

...am I thinking in the right direction that the charger might charge these ni-cads in about 8 hours?.....thanks for any thoughts on this...

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - 128 Durham Drive, Regina, SK.,
S4S-4Z2, Canada-AR Stamp Collector- "QRP! How sweet it is!"

Date: Sat, 04 Sep 1999 20:21:33 +0000
From: Brian Short <bshort@speedchoice.com>
To: qrp-1@lehigh.edu
Subject: [49369] Books Available For Trade
Message-ID: <4.1.19990904201524.02c25720@mail.phoenix.speedchoice.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I am still thinning out my book collection.

The following are available for sale/trade for QRP kits or related items. Will consider QRP xcvr or

rcvr/xmtr kits, built/unbuilt, working or not etc.
Accessories, tuners, etc also considered.

--

1. QRP Power (by ARRL)
2. The ARRL Handbook 74th Edition, 1997
3. The ARRL Handbook 64th Edition, 1987
4. W1FB's QRP Notebook, 2nd edition
5. W1FB's Design Notebook

Please let me know what you may have available
to trade for above items.

Thanks, Brian

--

Brian K. Short <http://www.qex.net/k7on/> <mailto:k7on@arrl.net>

--

Date: Sat, 4 Sep 1999 15:35:22 -0500
From: Kenneth R Wezeman <n9qil@juno.com>
To: hamjoel@juno.com
Cc: qrp-l@Lehigh.EDU
Subject: [49370] Re: QRP-L FIRST!!! 3 IN 1
Message-ID: <19990904.153820.-178483.0.N9QIL@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Joel,

CONGRATULATIONS! First or not, that is a terrific accomplishment!

Ken Wezeman, N9QIL - Mishawaka, IN
QRP ARCI #8191; QRP-L #1416; AK QRP #379

On Sat, 4 Sep 1999 12:33:21 -0400 hamjoel@juno.com writes:
> i MADE 3 SSTV QRP 1KMPW CONTACTS IN ONE TRANSMISSION....
> >.1WATTS OUT

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Date: 4 Sep 99 16:42:03 EDT
From: Roy Lincoln <wa4dou@usa.net>
To: rattray@gpfn.sk.ca, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [49371] Re: [technical question]
Message-ID: <19990904204203.4539.qmail@www0n.netaddress.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: quoted-printable

Hi Bruce,
You're right on target! 73 Roy WA4DOU

=2E..am I thinking in the right direction that the charger might charge
these ni-cads in about 8 hours?.....thanks for any thoughts on this...

=2E.72/73 - Bruce (VE5RC+VE5QRP) =

Get free email and a permanent address at <http://www.netaddress.com/?N=3D=1>
1

Date: Sat, 4 Sep 1999 12:48:35 -0800
From: Bruce Hopkins - KL7H <k17h@arrl.net>
To: qrp-1@lehigh.edu
Subject: [49372] Re: SWR/Wattmeter Homebrew or Kit?
Message-ID: <v03007802b3f733942921@[208.161.166.238]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Gang...

One unit that I have not seen mentioned is the LDG Electronics DWM-4...

I own an OHR WM-1 and have been extremely pleased with it... It will remain my primary QRPp/QRP SWR/Wattmeter... I also enjoy my boatanchors and because of their power potential I don't want a silly mistake to let the smoke out of my WM-1... The DWM-4 looks to be just what I am looking

for, it will handle 150 watts and yet on its 15 watt scale it is calibrated in 100mW increments...

Just thought I would mention this as a possible alternative for those in a similar situation... I have not built the DWM-4 yet but have dealt with LDG in the past with their QRP Autotuner and they are a first class operation... Take a look at their offerings at:
<http://ldgelectronics.com/dwm-4.html>

Take care and have fun...

72 / 73 / oo's - Bruce - KL7H
Fairbanks, Alaska

"Alaska QRP Club" - Web Site: <http://home.gci.net/~bhopkins/akqrp>
- 10 Meter Beacon: 28.282.28+/- KL7AQC / BCN

Date: Sat, 4 Sep 1999 14:10:31 -0700 (PDT)
From: Brad Bradfield <b_bradfield@yahoo.com>
To: qrp-l@lehigh.edu
Subject: [49373] MYE KEYER MANUAL NEEDED
Message-ID: <19990904211031.8705.rocketmail@send205.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Hello y'all from still sunny and hot North Texas - -

Does anyone have a Nye SSK-1-K keyer that could make me a copy of the manual and schematic. These are the Nye SSK-1 paddles that are still on the market, in a slightly larger box with a CMOS keyer in it. Not exactly sure of the vintage, but the keyer is 4000 series CMOS logic IC's. I appreciate any help y'all can give me, and will pay for copying and shipping.

Oh, well.

72's es 73's,

Soon to be unemployed Brad, W5CGH

===

Brad Bradfield, PE
W5CGH (ex WB0CGH)

Systems Engineer
Raytheon Systems Company

Real men talk with their fingers!!

NORTEX QRP-L #377 QRP-ARCI SMIRK #4906
ARS #72 NORCAL Austin QRP Club #e

Do You Yahoo!?
Bid and sell for free at <http://auctions.yahoo.com>

Date: Sat, 4 Sep 1999 17:31:16 EDT
From: K4NK@aol.com
To: qrp-l@lehigh.edu
Subject: [49374] Shelby QRP get together
Message-ID: <542c5a1b.2502e9a4@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

A short joint meeting of QRPers from No.Carolina ,So. Carolina and Georgia was held at the Shelby hamfest . Members of the Knightlites and No Ga QRP clubs were present. It was great to see every one and hope to have more get togethers like this. Oh Yea...i found a 49er in the flea market..can you believe it?

72 Les K4NK

Date: Sat, 4 Sep 1999 15:40:44 -0600
From: "Carlos J. Caro" <CJCARO@email.msn.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [49375] Oh Canada
Message-ID: <000601bef71e\$3a9e8760\$454f0e3f@default>

You Canadians should like this one!
Regards,
Carlos #1333

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M`\$4`*@`"?\_\_\_\_P`
M`"8`*`
M`%\`7P!S`'4`8@!S`'0`9P`Q`"X`,`!`?`#`,`S`\$(``,`Q`#`,`@`
M`J`(!)0`!8`#_____
M`)0`#`7P!?'`,`
M=0!B`,`= !G`#\$`+@`P`%\`,`!`#`#\$`.0`P`#\$`,`R`
M`"H`@\$7`%/\_\_\_\_\_\`
M`C`20`!`?`%\`<P!U`&(`<P!T`
M`&<`,`0`N`#`7P`P`\$`,`0!`#`,`Q`\$4`
M`\*@`"0H`\_\_\_\_P`
M`"(`#`%\`7P!S`'4`8@!S`'0`9P`Q`"X`

M, !?`# `0P`Q`\$8`, `P`#\$`10` J
M`(`!-----P4``#-----
M`.....(0`"T`.....7P!?'`,`=0!B``,`= !G`#\$`+@`P`%\`,` !#
M`#\$`00`P`#``,`0!%`....."H`"@`'-----
M%0```/____\
M`....."@`.....!?'%\`<P!U`&(`<P!T`&<`,`0`N`#` `7P`P`\$`,`0!\$`#` `
M,0`P`#(`.....\*@`"``/-----
M_P`.....!\\`P`.....
M`.....%\`7P!S`'4`8@!S`'0`9P`Q`"X`, !?'#``,`S`\$8`,`Q`#``,`@` `
M`.....J`(!)P`!!D``#-----
M`.....0`\$D`.....7P!?
M`,`=0!B``,`= !G`#\$`+@`P`%\`,` `P`#<`-0`P`#``,`0!%`
M`....."H`"@`+'`...../____\
M`.....<`P`.....!?'%\`<P!U`&(`
M<P!T`&<`,`0`N`#` `7P`P`#` `-P`V`#``,`Q`\$4`.....
M`.....\*@`"``/-----P`.....
M`.....!L`M`.....%\`7P!S`'4`8@!S`'0`9P`Q`
M`"X`, !?'#``,`T`#``,`P`#\$`10`.....
M`J`(`-----
M`.....&@`!`.....7P!?'`,`=0!B``,`= !G`#\$`+@`P`%\`
M, `P`#4`,`0`P`#\$`,`R`....."H`"@\$;
M`..#0```/____\
M`9`.....!?'%\`<P!U`&(`<P!T`&<`,`0`N`#` `7P`P`#` `- `S`
M`#``,`0`P`#(`.....\*@`"``\`>`
M_____P`.....!<`!`
M`.....%\`7P!S`'4`8@!S`'0`9P`Q`"X`, !?'#``,`W`#<`,`P`#\$`
M10`.....J`(!&`!T``#-----
M`.....%@``,`
M7P!?'`,`=0!B``,`= !G`#\$`+@`P`%\`,` `P`#<`.`P`#``,`0!%`
M`....."H`"@#-----\
M`.....5`+0`.....!?'%\`<P!U`
M`&(`<P!T`&<`,`0`N`#` `7P`P`#` `- `T`#``,`Q`\$4`.....
M`.....\*@`"``?____\@`.....P`.....
M`.....!0`0`.....%\`7P!S`'4`8@!S`'0`
M9P`Q`"X`, !?'#``,`U`#(``,`Q`#``,`@`
M`J`(!-----
M`.....\$P``#`.....7P!?'`,`=0!B``,`= !G`#\$`+@`P`
M`%\`,` `P`#0`-P`P`#\$`,`R`....."H`
M`@#-----\
M`.....2`-0`.....!?'%\`<P!U`&(`<P!T`&<`,`0`N`#` `7P`S`\$8`
M1@`Y`#``,`0`P`#(`.....\*@`"``2(``D`
M`.....P`.....!
M`!`.....%\`7P!S`'4`8@!S`'0`9P`Q`"X`, !?'#`,`1@!&`#@`,`P`
M`#\$`10`.....J`(!-----
M`.....#P`!`
M`.....7P!?'`,`=0!B``,`= !G`#\$`+@`P`%\`,`P!&`\$8`0@`P`#\$`,`R`
M`....."H`"@\$A`.....*@```/____\
M`.....-`20`.....!?'%\`

M<P!U'&(<P!T'&<,0`N`#`7P`S`\$8`1@!!`#``,`Q`\$4`
M`.....\*@`"``?_____P`.....
M`.....P`.....0`.....%`\`7P!S`'4`8@!S`
M`'0`9P`Q`"X`,!`?`#``,`Q`\$\$`,`P`#\$`10`.....
M`.....J``(!`@`""8`#`_____`
M`....."P`.....D`.....7P!?'`,`=0!B``,`= !G`#\$`
M+@`P`%\`,`P`#`,`-P`P`#`,`0!%`.....
M`"H`@#`_____\
M`.....\*`""@`.....!`?`%\`<P!U'&(<P!T'&<,0`N`#`7P`P`
M`#`,`P!\$`#`,`Q`\$4`.....*@`"``/_`
M`\_\_\_\_\_P`.....
M`D`.....!`.....%`\`7P!S`'4`8@!S`'0`9P`Q`"X`,!`?`#`10`Q`\$0`
M`,`P`#\$`10`.....J``(`\_\_\_\_\_`
M`\_\_\_\_\_H`
M`.....7P!?'`,`=0!B``,`= !G`#\$`+@`P`%\`,`0`P`#`,`-0`P`#`,`0!%`
M`....."H`@#`_____\
M`.....(``0`.....!`?
M`%\`<@!E`&`,`:0!P`%\`=@!E`'(`<P!I`&\`;@`Q`"X`,!`?`,``,`P`#`
M`,`P`#`,`P`.....@`!`0\$`""K`""\$`.....
M`.....0`&:@G`Q00\$@.JN"<?&]`0`.....%`\`7P!R`&4`
M8P!I`'7P!V`&4`<@!S`&D`;P!N`#\$`+@`P`%\`(P`P`#`,`P`#`,`P`
M`#\$`.....Z`\$!`_____^`
M`'@.JN"<?&]`2"DPX)Q\;T!`.....7P!?'`(`90!C`&D`< !`?
M`'8`90!R``,`:0!O`&X`,`0`N`#`7P`C`#`,`P`#`,`P`#`,`@`.....
M`'H`0\$C`-`"/4`....."DPX)Q`
M\;T!X#7E@G`Q00\$`.....!`?`%\`<@!E`&`,`:0!P`%\`=@!E`'(`
M<P!I`&\`;@`Q`"X`,!`?`,``,`P`#`,`P`#`,`S`.....@`!
M`?`_____ZP`.....X#7E@G`Q00%`N`"#`
M<?&]`0`.....%`\`7P!R`&4`8P!I`'7P!V`&4`<@!S`&D`;P!N`
M`#\$`+@`P`%\`(P`P`#`,`P`#`,`P`#`0`.....Z`\$!`+0`""\
M`#B`.....!@62B#<?&]`2#K28-Q\;T!`.....
M`.....7P!?'`(`90!C`&D`< !`?'8`90!R``,`:0!O`&X`,`0`N`#`
M7P`C`#`,`P`#`,`P`#`,`-0`.....#H`0`\_\_\_\_\_]D`.....
M`....."K28-Q\;T!P-MC@W`Q00\$`
M`!`?`%\`<@!E`&`,`:0!P`%\`=@!E`'(`<P!I`&\`;@`Q`"X`,!`?`,``,`P`
M`#`,`P`#`,`V`.....@`!`2X`""R`""T`
M`.....P-MC@W`Q00&`86#<?&]`0`.....%`\`7P!R`
M`&4`8P!I`'7P!V`&4`<@!S`&D`;P!N`#\$`+@`P`%\`(P`P`#`,`P`#`,`
M`,`P`#`<`.....Z`\$!`\_\_\_\_\_&`
M`....."86#<?&]`<`]H81Q\;T!`.....7P!?'`(`90!C`&D`
M< !`?'8`90!R``,`:0!O`&X`,`0`N`#`7P`C`#`,`P`#`,`P`#`,`..`
M`.....#H`0\$Q`,`P`+T`.....(!E`
MJH1Q\;T!@,_"A`'Q00\$`.....!`?`%\`<@!E`&`,`:0!P`%\`=@!E`
M`'(`<P!I`&\`;@`Q`"X`,!`?`,``,`P`#`,`P`#`,`Y`.....
M.@`!`?`\_\_\_\_\_M`.....@,_"A`'Q00%`
M8>2\$<?&]`0`.....%`\`7P!R`&4`8P!I`'7P!V`&4`<@!S`&D`
M;P!N`#\$`+@`P`%\`(P`P`#`,`P`#`,`P`\$`.....Z`\$`,`
M`#@`""J`.....!`8>2\$<?&]`>!1_H1Q\;T!

```
M'7P!?'('90'C&D<!?'8'90'R',' :0!O`&X`,0`N`  
M'# `7P`C`#`,` `P`#`,` `P`#`0@` ` #H`0`_____Z$`  
M'.!1_H1Q\ ;T ! H.,?A7' Q00$`  
M'?%\'< @!E` &,`:0! P`%\`= @! E` ('<P! I`&\`; @`Q` " X`,!? ",`  
M`,`P`#`,` `P`#`,` !#`. @`!`34` W` F`  
M'H.,?A7' Q00@$=4&%< ?&]`0` %\  
M7P! R`&4`8P! I` '`7P! V`&4`< @! S`& D` ;P! N`#$`+ @`P`%\`(P`P`#`,` `P  
M`#`,` `P`$0` Z` $!`_____.^.  
M`!@=4&%< ?&]`0#0<X5Q\ ; T!` `7P! ?` '('90! C  
M`& D`< !?` '8`90! R` ',`:0! O`& X`,0`N`#` `7P`C`#`,` `P`#`,` `P`#`  
M10` ` #H`0$V` .@` `(4`  
M`#0<X5Q\ ; T! P&&5A7' Q00$` `!?%\'< @! E` &,`:0! P`%\`  
M=@! E` ('<P! I`&\`; @`Q` " X`,!? ",`,` `P`#`,` `P`#`,` ,!&  
M``.@`!`??` _____?` `P&&5A7' Q  
MO0& \[ :%< ?&]`0` `%\`7P!R`&4`8P!I` '`7P!V`&4`< @!S  
M`&D` ;P!N`#$`+ @`P`%\`(P`P`#`,` `P`#`,` `Q`#` Z` $!  
M.O` ` #P` `!S` "\[:%< ?&]`6 FX(5Q  
M\ ; T!` `7P! ?` '('90! C`& D`< !?` '8`90! R` ',`:0! O`& X`  
M,O`N`#` `7P`C`#`,` `P`#`,` `P`#$`,0` ` #H`0`_____  
M_VH` `& FX(5Q\ ; T! P * @ ; AG' Q00$`  
M'?%\'< @! E` &,`:0! P`%\`= @! E` ('<P! I`&\`; @`Q` " X`,!?  
M"',`,` `P`#`,` `P`#`,` ,O`R` .@`!`#L` ^.`80`  
M`P * @ ; AG' Q00& I%6& < ?&]`0`  
M`%\`7P!R`&4`8P!I` '`7P!V`&4`< @!S`&D` ;P!N`#$`+ @`P`%\`(P`P`#`,`  
M`,`P`#`,` `Q`#,` Z` '$`_____]8`  
M` " I%6& < ?&]`0#(F(9Q\ ; T!` `7P! ?` '('  
M90! C`& D`< !?` '8`90! R` ',`:0! O`& X`,0`N`#` `7P`C`#`,` `P`#`,` `P`  
M`#$` -` ` #H`0$) /P` `$T`  
M`#(F(9Q\ ; T! ``\?AW' Q00$` `!?%\'< @! E` &,`:0! P  
M`%\`= @! E` ('<P! I`&\`; @`Q` " X`,!? ",`,` `P`#`,` `P`#`,` ,O`U`  
M`. @`!` / _____.0@` _____\?  
MAW' Q00@$^W* '< ?&]`0` / [ _____.^_____.0___P0` ___%`  
M!@` __<__`#^_____.0___[ _____.^_____.0___[ _____.\_____.0___[ _____.\1  
M` _0___[ _____.^_____.0___[ _____.^_____.&`_/[ _____.^_____.0___[ _____.  
M` _^_____. '@`_/[ _____.^_____.0___[ _____.^_____. )`_/[ _____.^_____.0___  
M` [_ _____.^_____. * @`_/[ _____.^_____.0___RX`_0`_,`_#$`_R`  
M,P`_#0`_U`_- @`_#<`_X`_.0`_#H`_#^_____/`_/[ _____.^\`  
M`_/P`_$`_!!`_0@`_$`,_!$_`10`_$8`_!'`_2`_$D`  
M`!*`_2P`_/[ _____.^_____.3@`_$`\`_!0`_40`_%(`_!3`_5`  
M`%4`_!6`_5P`_%@`_!9`_6@`_%L`_!<`_70`_/ [ ____]?`  
M_O`_[ _____.^_____.0___[ ____].E`_0___[ _____.^_____.0___[ ____].K  
M`_;`_&T`_!N`_O___W`_#^_____.0___[ _____.^_____.0___w8`  
M`_#^_____.0___[ _____.^_____.0___WP`_'!]`_?@`_'\`_#^_____.3V@@`  
MOV%N861A`  
M`  
M`  
M`  
M`  
M`)V) A<F(G.R!:::6UM97) M86XL($ ) A<F) A<F$@2SL@) V) I ; &PG
```


M.R!387EL97,L(%=I;&QI86T[("=B;V(08VAI;E]S=6LG.R G8F]B+VEN9W)I
M9"<[("=B;V)G964G.R!&<FET>BP@0G)E;F1A.R G9&%V92<[("=D879E<B<[
M(\$%L97AA;F1E<BP@1&5A;CL@)V5L:7IA8F5T:"<[("=H87IE;"<[(%A;&ME
M<BP@2FEM;6EE.R G:F]H;G-I;F=L9710;B<[("=M87)K=F%N9&5R9&]E<R<[
M("=M875R:6-E)SL@)W-A<F%H)SL@)W=A;'1B86ME<B<[("=W:6QL<W1I;&QM
M86XG.R!-86-G:6QL+"!+86QA;FD[(\$)R;W=N+"!#;&%R:P`.....
M`.....!?'%\`< !R`&\`< !E`('= !I`&4`<P!?'`8`90!R
M`',`:0!0`&X`,0`N`#`.....,`" `?\_\_\_\_\_`
M_____P`.....&H` ``8
M`0`.....%\`7P!S`'4`8@!S`'0`9P`Q`"X`, !?'#`,` `P`#(`, `P`#\$`
M10`.....J` `(!\_\_\_\_\_`
M`.....:0`.....
M7P!?'`,`=0!B`',`= !G`#\$`+@`P`%\`,`P`P`#``,`P`P`#``,`0!%`
M`....."H` `@%#` ``1P` `/_____\`
M`.....!H` ``-@`.....!?'%\`<P!U
M`&(`<P!T`&<`,`0`N`#` `7P`S`#``,` `Q`#``,` `Q`\$4`.....
M`.....\*@`" `4H` `!!` ``_____P`
M`.....&<` ``-`.....%\`7P!S`'4`8@!S`'0`
M9P`Q`"X`, !?'#` `1@!&`#8`,` `Q`#``,`@`.....
M` `` `J` `(` _____`
M`.....9@` ``0`.....7P!?'`,`=0!B`',`= !G`#\$`+@`P
M`%\`,` !&`\$8`1@`P`#\$`,` `R`....."H`
M`@#`_____\
M`.....!D` `4@`.....!?'%\`<P!U`&(`<P!T`&<`,`0`N`#` `7P`S`#` `
M, !" `#``,`0`P`#(` _____*@`" `/_____
M_____P`.....&`,`
M` ``Y`.....%\`7P!S`'4`8@!S`'0`9P`Q`"X`, !?'#`,`00`R`#``,` `P
M`#\$`10`.....J` `(!20` ``\$` ``#`_____
M`.....8@` ``T`.....
M` ``7P!?'`,`=0!B`',`= !G`#\$`+@`P`%\`,`P`Y`\$8`1@`P`#``,`0!%`
M`....."H` `@#` _____\
M`.....!A` ``%0`.....!?'%\`
M<P!U`&(`<P!T`&<`,`0`N`#` `7P`S`#`D`1@!%`#``,` `Q`\$4`.....
M`.....\*@`" `48` `!(` ``_____P`
M`.....&` `5`.....%\`7P!S`'4`8@!S
M`'0`9P`Q`"X`, !?'#` `1@!&`#D`,` `Q`#``,`@`.....
M` `` `J` `(!1` ``\$4` ``#`_____
M`.....7@` ``\$<`.....7P!?'` `<@!0`' `90!R`'0`
M:0!E`',`7P!V`&4`<@!S`&D`;P!N`#\$`+@`P`.....
M`#` ``@` _____\
M`.....![` ``& \$`.....!?'%\`<P!U`&(`<P!T`&<`,`0`N`#` `7P`S
M`#``,` `R`#``,` `Q`\$4`.....*@`" `?__`
M_____P`.....
M`'H` ``#`.....%\`7P!S`'4`8@!S`'0`9P`Q`"X`, !?'#`,` `P`#`,`
M, `P`#\$`10`.....J` `(!3@` ``%(` ``#`_
M_____>0` ``#D`
M` ``7P!?'`,`=0!B`',`= !G`#\$`+@`P`%\`,`P`P`#``,`0`P`#``,`0!%`
M`....."H` `@%5` ``3` ``/_____\`

M`.....!X`\$\$`.....!?
M`%\M`.....*@`"/\_\_\_\_\_P`.....
M`.....'<`\$`.....%\M8@!S`'0`9P`Q`"X`,`!?'`#`1@!&`\$8`,`Q`#`,`@`.....
M`.....J`(`\_\_\_\_\_`
M`.....=0`%4`.....7P!?'`,`=0!B``,`=!G`
M`#\$`+@`P`%\M`....."H`@#`_____\
M`.....!T`/`.....!?'`%\M7P`S`\$\$`,`@`P`#`,`Q`\$4`.....*@`"
M`50`!+`\_\_\_\_\_P`.....
M`.....,`0`.....%\M`\$8`,`P`#\$`10`.....J`(`\_\_\_\_\_`
M`\_\_\_\_\_`<@`
M`!@`.....7P!?'`,`=0!B``,`=!G`#\$`+@`P`%\M,0!%`....."H`@%1`4P`/____\
M`.....!Q`&
M`!?'`%\M`.....\*@`"4\`!0`_____P`.....
M`.....&\`!-`.....%\M`'(`;P!P`&4`<@!T`&D`90!S`%\M`.....P`(!_____`
M`.....B`/@`.....7P!?'`,`=0!B``,`
M`=!G`#\$`+@`P`%\M`....."H`@`'_____\
M`....."!0`.....!?'`%\M`#`7P`S`#`,`S`#`,`Q`\$4`.....
M`\*@`"5D`!=`_____P`.....
M`.....(8`3`.....%\M`,`P`#\$`,`P`#\$`10`.....J`(`6@`
M`%<`#`\_\_\_\_\_`
MA0`\\\`.....7P!?'`,`=0!B``,`=!G`#\$`+@`P`%\M`#\$`,`R`....."H`@`'\_\_\_\_\_6P`/____`
M`____\
M`.....!?'`%\M`.....\*@`"/_____P`.....
M`.....(,`_____`%\
M7P!S`'4`8@!S`'0`9P`Q`"X`,`!?'`#`,``,`P`\$(``,`Q`#`,`@`.....
M`.....J`(!_____UX`#`_____`
M`.....@@`!@`.....7P!?'`,`=0!B`
M``,`=!G`#\$`+@`P`%\M`....."H`@!<`5@`/____\
M`....."!`#P`.....!?'`%\M,0`N`#`7P`S`#D`1@!&`#`,`Q`\$4`.....
M`.....\*@`"/_____P`.....
M`.....( -`.....%\M`%\

M_____ '.....'
M'`E`/ @`7P!?'',`=0!B'',`= !G`#\$`+@`P`%\`,P`P`#`
M,@`P`#`,`0!%`"H`@'_____
M_____\`"3`_____
M!0`!?'%\`<P!U`&(`<P!T`&<`,`0`N`#`7P`S`#`,`S`#`,`Q`
M`\$4`*@`"6(`!F`\_\_\_\_P`
M`\_\_\_\_\_)(`3`_____
M`%\`7P!S`'4`8@!S`'0`9P`Q`"X`,!?'#`,`P`#\$`,`P`#\$`10`_____
M`J`(`8P`&`#`_____
M`D0`P`7P!?'',`
M=0!B'',`= !G`#\$`+@`P`%\`,!&`\$8`-@`P`#\$`,`R`_____
M`"H`@'____9`/____\
M`"0`!`!?'%\`<P!U`&(`<P!T`
M`&<`,`0`N`#`7P`P`\$8`1@!&`#`,`0`P`#`(`_____
M`\*@`"/`\_\_\_\_P`_____
M`\_\_\_\_\_\`%\`7P!S`'4`8@!S`'0`9P`Q`"X`
M,!?`#`,`P`\$(``,`Q`#`,`@`\_\_\_\_J`
M`(!`____V<`#`_____
M`C@`!@`7P!?'',`=0!B'',`= !G`#\$`+@`P`%\`,P!!`
M`#`(``,`P`#`,`0!%`"H`@!E`_____
M7P`/____\
M`#`!?'%\`<P!U`&(`<P!T`&<`,`0`N`#`7P`S`#D`1@!&`#`
M,`Q`\$4`\*@`"/`_____
M_P`\_\_\_\_\_(P`*`_____
M`%\`7P!P`'(`;P!P`&4`<@!T`&D`90!S`%\`=@!E`'(`<P!I`&`\`;@`Q`
M`"X`,`P`(!`_____
M`H`/ @`7P!?`
M`,`=0!B'',`= !G`#\$`+@`P`%\`,P`P`#`,`@`P`#`,`0!%`_____
M`"H`@'____\
M`"?!0`!?'%\`<P!U`&(`
M<P!T`&<`,`0`N`#`7P`S`#`,`S`#`,`Q`\$4`_____
M`\*@`"6L`!0`____P`_____
M`\_\_\_\_\_)X`4`%\`7P!S`'4`8@!S`'0`9P`Q`
M`"X`,!?`#`,`P`#\$`,`P`#\$`10`_____
M`J`(`;`&D`#`_____
M`G0`@`7P!?'',`=0!B'',`= !G`#\$`+@`P`%\`
M, !&`\$8`-@`P`#\$`,`R`"H`@'_____
M`\_\_\_\_;0`/____\
M`"<`!`!?'%\`<P!U`&(`<P!T`&<`,`0`N`#`7P`P`\$8`1@!&`
M`#`,`0`P`#`(`\_\_\_\_\_\*@`"/`_____
M`\_\_\_\_P`_____)L`Y`
M`%\`7P!S`'4`8@!S`'0`9P`Q`"X`,!?`#`,`P`\$(``,`Q`#`
M,@`J`(!`\_\_\_\_W`#`_____
M`\_\_\_\_F@`!D`_____
M7P!?'',`=0!B'',`= !G`#\$`+@`P`%\`,P!!`#`(``,`P`#`,`0!%`_____
M`"H`@!N`:`____\
M`"9`!?'%\`<P!U`
M`&(`<P!T`&<`,`0`N`#`7P`S`#D`1@!&`#`,`Q`\$4`_____

M`.....\*@`"/_____P`.....
M`.....)@`'`&`'`%`\`7P!P`'(`;P!P`&4`
M<@!T`&D`90!S`%\`=@!E`'(`<P!I`&\`';@`Q`"X`, `.....
M`.....P`'(!_____P`.....
M`.....K`'`/@`'`7P!?'`',`=0!B`'`,`= !G`#\$\$`+@`P`
M`%\`,`P`P`#``,`@`P`#``,`0!%`....."H`
M`@'\_\_\_\_\_\`
M`....."K`'`!0`'`!?'`%\`<P!U`&(`<P!T`&<`,`0`N`#`'7P`S`#` `
M`,`S`#``,`Q`\$4`.....\*@`"70`'`!X`
M`.....P`.....*H`
M`6`.....%\`7P!S`'4`8@!S`'0`9P`Q`"X`, !?'`#`,``,`P`#\$\$`,`P`
M`#\$\$`10`.....J`'(`=0`'`'(`#`_____
M`.....J0`'`H`
M`7P!?'`',`=0!B`'`,`= !G`#\$\$`+@`P`%\`,`!&`\$8`-@`P`#\$\$`,`R`
M`....."H`'`@'\_\_\_\_\_=@`'`/\_\_\_\_\_\`
M`....."H`'`!`.....!?'`%\`
M<P!U`&(`<P!T`&<`,`0`N`#`'7P`P`\$8`1@!&`#``,`0`P`#(`.....
M`.....\*@`"/_____P`.....
M`.....\*<`'`]`.....%\`7P!S`'4`8@!S`
M`'0`9P`Q`"X`, !?'`#`,``,`P`\$(``,`Q`#``,`@`
M`.....J`'(!_____WD`'`#`_____
M`.....I@`'`!L`'`7P!?'`',`=0!B`'`,`= !G`#\$\$`
M+@`P`%\`,`P!`'`#(``,`P`#``,`0!%`.....
M`"H`'`@!W`'`<0`'`/\_\_\_\_\_\`
M`....."E`'`"@`'`!?'`%\`<P!U`&(`<P!T`&<`,`0`N`#`'7P`S`
M`#D`1@!&`#``,`Q`\$4`.....\*@`"/_____
M`\_\_\_\_\_P`.....
M`\*0`'`'(`.....%\`7P!P`'(`;P!P`&4`<@!T`&D`90!S`%\`=@!E`'(`
M<P!I`&\`';@`Q`"X`, `.....P`'(!\_\_\_\_\_P`.....
M`\_\_\_\_\_NO`'`/@`
M`7P!?'`',`=0!B`'`,`= !G`#\$\$`+@`P`%\`,`P`P`#``,`@`P`#``,`0!%`
M`....."H`'`@'\_\_\_\_\_\`
M`....."X`'`!0`'`!?'`%\`<P!U`&(`<P!T`&<`,`0`N`#`'7P`S`#``,``,`S`#``,``,`Q`\$4`
M`.....\*@`"7T`'`"!`\_\_\_\_\_P`.....
M`.....+<`'`4`'`%\`7P!S`'4`
M8@!S`'0`9P`Q`"X`, !?'`#`,``,`P`#\$\$`,`P`#\$\$`10`
M`.....J`'(`?@`'`'L`'`#`_____
M`.....M@`'`!\$`'`7P!?'`',`=0!B`'`,`= !G`
M`#\$\$`+@`P`%\`,`!&`\$8`-@`P`#\$\$`,`R`
M`....."H`'`@'\_\_\_\_\_P`'`/\_\_\_\_\_\`
M`....."U`'`!`.....!?'`%\`<P!U`&(`<P!T`&<`,`0`N`#`'7P`P`\$8`1@!&`#``,`0`P`#(`.....*@`"
M`/\_\_\_\_\_P`.....
M`+`,`!`.....%\`7P!S`'4`8@!S`'0`9P`Q`"X`, !?'`#`,``,`P`
M`\$(``,`Q`#``,`@`.....J`'(!\_\_\_\_\_X(`
M`#`_____L@`
M`!D`.....7P!?'`',`=0!B`'`,`= !G`#\$\$`+@`P`%\`,`P!`'`#(``,`P`#`

M,0!%`"H`@"`>@`"/____\`
M`"Q`\$0`
M`!?'%\`<P!U`&(`<P!T`&<`,`0`N`#`7P`S`#D`1@!&`#`,`Q`\$4`
M`\*@"`"/____P`
M`+`/`%`\`7P!P`
M`'(`;P!P`&4`<@!T`&D`90!S`%\`=@!E`'(`<P!I`&\`;@`Q`"X`,`
M`P`(!`
M`Q@`"/@`7P!?'`,`=0!B``,`
M`= !G`#`\$`+@`P`%\`,`P`P`#`,`@`P`#`,`0!%`
M`"H`@"`\_\_\_\_\`
M`#%`!0`!?'%\`<P!U`&(`<P!T`&<`,`0`N`
M`#`7P`S`#`,`S`#`,`Q`\$4`
M`\*@"`88`"★`____P`
M``,`0`7`%\`7P!S`'4`8@!S`'0`9P`Q`"X`,`!?'#`,`
M`,`P`#`\$`,`P`#`\$`10`J`'(AP`
M`'(0`#`\_\_\_\_`
MPP`!`7P!?'`,`=0!B``,`= !G`#`\$`+@`P`%\`,`!&`\$8`-@`P`
M`#`\$`,`R`"H`@"`\_\_\_\_B`"/____`
M`\_\_\`#`!`
M`!?'%\`<P!U`&(`<P!T`&<`,`0`N`#`7P`P`\$8`1@!&`#`,`0`P`#`(
M`\*@"`"/____P`
M``,`!`\$`%\`
M`7P!S`'4`8@!S`'0`9P`Q`"X`,`!?'#`,`P`\$``,`Q`#`,`@`
M`J`(!____XL`#\_\_\_\_`
M`OP`!P`7P!?'`,`=0!B`
M``,`= !G`#`\$`+@`P`%\`,`P`!!`#`(``,`P`#`,`0!%`
M`"H`@"`)`@P`"/\_\_\_\_\`
M`"^^`\$`!?'%\`<P!U`&(`<P!T`&<`,`
M`,`0`N`#`7P`S`#D`1@!&`#`,`Q`\$4`
M`\*@"`"/____P`
M`+T`P`%\`7P!P`'(`;P!P`&4`<@!T`&D`90!S`
M`%\`=@!E`'(`<P!I`&\`;@`Q`"X`,`P`(!`
M`\_\_\_\_`
M`U`@!`7P!?'`,`=0!B``,`= !G`#`\$`+@`P`%\`,`P`P`#`
M`,`@`P`#`,`0!%`"H`@"`\_\_\_\_`
M`\_\_\_\_\`#3`
M`P`!?'%\`<P!U`&(`<P!T`&<`,`0`N`#`7P`S`#`,`S`#`,`Q`
M`\$4`*@"`8\`"3`\_\_\_\_P`
M`-(`M`
M`%\`7P!S`'4`8@!S`'0`9P`Q`"X`,`!?'#`,`P`#`\$`,`P`#`\$`10`
M`J`(!D` (T`#____`
M`T0` \`7P!?'`,`
M`=0!B``,`= !G`#`\$`+@`P`%\`,`!&`\$8`-@`P`#`\$`,`R`
M`"H`@"`\_\_\_\_D0`"/____\`
M`#0`!`!?'%\`<P!U`&(`<P!T`
M`&<`,`0`N`#`7P`P`\$8`1@!&`#`,`0`P`#`(
M`\*@"`"/____P`
M``,`X`!`)%`%\`7P!S`'4`8@!S`'0`9P`Q`"X`

M, !?`#,, `P`\$(`, `Q`#`,@`.....J
M`(`-----
M`.....S0`#`.....7P!?'',`=0!B`',`= !G`#`\$`+@`P`%`\`,P!!
M`#(`, `P`#` `,0!%`....."H`@&5`
MC`.../____\
M`...#P`.....!?'%\`<P!U`&(`<P!T`&<`,`0`N`#` `7P`S`#D`1@!&`#` `
M, `Q`\$4`.....\*@`"``/-----
M_P`.....,L`...`\*`
M`...`%\`7P!S`'4`8@!S`'0`9P`Q`"X`, !?'#,,`.0!&`\$4`, `P`#`\$`10`
M`.....J`(`!D@`...`)0`...`#`_____
M`.....R@`...`!<.....7P!?
M`' `<@!0`' `90!R`'0`:`0!E`',`7P!V`&4`<@!S`&D`;P!N`#`\$`+@`P`
M`.....#` `@`'-----\
M`.....#A`...`^`...!?'%\`<P!U`&(`
M<P!T`&<`,`0`N`#` `7P`S`#` `, `R`#` `, `Q`\$4`.....
M`.....\*@`"``?`-----P`
M`.....%`.....%\`7P!S`'4`8@!S`'0`9P`Q`
M`"X`, !?'#,, `P`#,, `P`#`\$`10`
M`...J`(`!F0`...`)T`...`#`_____
M`.....WP`...`!,.....7P!?'',`=0!B`',`= !G`#`\$`+@`P`%`\`
M,P`P`#` `,0`P`#` `,0!%`....."H`@":
M`...EP`.../____\
M`#>`.....!?'%\`<P!U`&(`<P!T`&<`,`0`N`#` `7P`P`\$8`1@`V
M`#` `,0`P`#(`.....*@`"``?`-----^;`
M`-----P`.....-T`...`\$
M`.....%\`7P!S`'4`8@!S`'0`9P`Q`"X`, !?'#` `1@!&`\$8`, `Q`#` `
M,@`.....J`(`-----
M`.....W`...`#@`
M7P!?'',`=0!B`',`= !G`#`\$`+@`P`%`\`,P`P`#` `0@`P`#`\$`, `R`
M`....."H`@`'-----G@`.../____\
M`.....#;`...`&`...!?'%\`<P!U`
M`&(`<P!T`&<`,`0`N`#` `7P`S`\$`,@`P`#` `, `Q`\$4`.....
M`.....\*@`"``)P`...`"6`...`-----P`
M`.....-H`(`.....%\`7P!S`'4`8@!S`'0`
M9P`Q`"X`, !?'#,,`.0!&`\$8`, `P`#`\$`10`
M`.....J`(`-----
M`.....V0`...`8`.....7P!?' `<@!0`' `90!R`'0`:`0!E
M`',`7P!V`&4`<@!S`&D`;P!N`#`\$`+@`P`.....`#` `
M`@`'-----\
M`.....#M`...`^`...!?'%\`<P!U`&(`<P!T`&<`,`0`N`#` `7P`S`#` `
M, `R`#` `, `Q`\$4`.....\*@`"``?`-----
M`-----P`......P`
M`...`%`.....%\`7P!S`'4`8@!S`'0`9P`Q`"X`, !?'#,, `P`#,, `P`
M`#`\$`10`.....J`(`!H@`...`*8`...`#`_____
M`.....ZP`...`!0`
M`.....7P!?'',`=0!B`',`= !G`#`\$`+@`P`%`\`,P`P`#` `,0`P`#` `,0!%`
M`....."H`@`"C`...`H`.../____\
M`.....#J`...`#`.....!?'%\`

M<P!U`&(`<P!T`&<`,`0`N`#`7P`P`\$8`1@`V`#``,`0`P`#(`
M`.....\*@`"``?_____^D`.....P`.....
M`......D`.....\$`.....%\`7P!S`'4`8@!S
M`'0`9P`Q`"X`,`!`?`#`1@!&`\$8`,`Q`#`,`@`.....
M`.....J`(`\_\_\_\_\_`
M`.....Z`.....#T`.....7P!`?`,`'`,`=0!B`'`,`= `!G`#\$`
M+@`P`%`\`,`P`P`#`0@`P`#\$`,`R`.....
M`"H`"@`\_\_\_\_\_IP`"/_____\`
M`.....#G`.....&0`.....!`?`%\`<P!U`&(`<P!T`&<`,`0`N`#`7P`S
M`\$\$`,`@`P`#`,`Q`\$4`.....\*@`"``*4`
M`"``?`.....P`.....
M`.8`.....,`.....%\`7P!S`'4`8@!S`'0`9P`Q`"X`,`!`?`#`,`.0!&`\$8`
M`,`P`#\$`10`.....J`(`\_\_\_\_\_`
M`\_\_\_\_\_Y0`.....H`
M`.....7P!`?`,`'`,`<@!0`'`90!R`'0`:`0!E`'`,`7P!V`&4`<@!S`&D`;P!N
M`#\$`+@`P`.....#`"@`_____\
M`.....#[`....."``\$`.....!`?
M`%\`<P!U`&(`<P!T`&<`,`0`N`#`7P`S`#`,`R`#`,`Q`\$4`.....
M`.....\*@`"``?_____P`.....
M`...../H`.....#`.....%\`7P!S`'4`
M8@!S`'0`9P`Q`"X`,`!`?`#`,``,`P`#`,``,`P`#\$`10`.....
M`.....J`(!JP`.....\*\`.....#`\_\_\_\_\_`
M`.....^0`....."T`.....7P!`?`,`'`,`=0!B`'`,`= `!G
M`#\$`+@`P`%`\`,`P`P`#`,`0`P`#`,`0!`%
M`....."H`@&L`.....J0`"/_____\`
M`.....#X`.....\$`.....!`?`%\`<P!U`&(`<P!T`&<`,`0`N`#`7P`P`\$8`1@`V`#``,`0`P`#(`
M`.....\*@`"``
M`?`_____^M`.....P`.....
M`...../<`.....\$`.....%\`7P!S`'4`8@!S`'0`9P`Q`"X`,`!`?`#`1@!&
M`\$8`,`Q`#`,`@`.....J`(`\_\_\_\_\_`
M`\_\_\_\_\_J0`
M`\$D`.....7P!`?`,`'`,`=0!B`'`,`= `!G`#\$`+@`P`%`\`,`P`P`#`0@`P`#\$`
M`,`R`....."H`"@#`_____\
M`.....#T`.....,`
M`!`?`%\`<P!U`&(`<P!T`&<`,`0`N`#`7P`S`\$\$`,`@`P`#`,`Q`\$4`.....
M`.....\*@`"``;\$`....."H`.....P`.....
M`...../`,`0`.....%\`7P!S
M`'4`8@!S`'0`9P`Q`"X`,`!`?`#`,`.0!&`\$8`,`P`#\$`10`.....
M`.....J`(`\_\_\_\_\_`
M`.....\@`.....H`.....7P!`?`,`'`,`=0!B`'`,`
M= `!G`#\$`+@`P`%`\`,`P`Y`\$8`10`P`#`,`0!`%
M`....."H`@&N`.....L`"/_____\`
M`.....#Q`.....&`.....!`?`%\`<`!R`&\`<`!E`'`(`= `!I
M`&4`<P!`?'8`90!R`'`,`:`0!0`&X`,`0`N`#`.....
M`,`"``?`\_\_\_\_\_P`.....
M`.....D!`.....#X`.....%\`7P!S`'4`8@!S`'0`9P`Q`"X`,`!`?`#`,`
M`,`P`#(``,`P`#\$`10`.....J`(!\_\_\_\_\_`
M`\_\_\_\_\_`

M" \$``4``````7P!?'',`=0!B'',`= !G`#\$`+@`P`%\`,P`P`#` ,P`P`
M`#` ,0!%` "H`@&U` `N0` `/_`
M__\` ,0` ,0`
M` `` ``!?'`%\`<P!U`&(`<P!T`&<`,`0`N`#` `7P`S`#` ,`Q`#` ,`Q`\$4`
M` `` `` `\*@`"``+8`"S` ``P` ``
M` `` ``8!` (`` ``%\`
M7P!S`'4`8@!S`'0`9P`Q`"X`, !?'`#` `1@!&`#8`, `Q`#` ,@`
M` `` ``J` `(!`\_\_\_\_[<` `#`____`
M` `` ``!0\$` `0` ``7P!?'',`=0!B`
M`',`= !G`#\$`+@`P`%\`, !&`\$8`1@`P`#\$`, `R`
M` `` ``"H`@#`_____\`
M` `` ``#`0`0@` ``!?'`%\`<P!U`&(`<P!T`&<`,`
M,0`N`#` `7P`S`#` ,`!"`#` ,0`P`#`(
M` `` `\*@`"``?`\_\_\_\_^Z` ``P`
M` `` ``(!` ``B` ``%\`7P!S`'4`8@!S`'0`9P`Q`"X`, !?'
M`#`,`00`R`#` ,`P`#\$`10` ``J` `(
MN` `` `+(` `#`____`
M` `` `0\$` `@` ``7P!?'',`=0!B'',`= !G`#\$`+@`P`%\`,P`Y`\$8`
M1@`P`#` ,0!%` "H`@#`_____
M`\_\_\_\_\_\` ,0`
M!@` `` ``!?'`%\`<`!R`&`\`<`!E`'(`= !I`&4`<P!?'`8`90!R`',`:0!0`
M`&X`,`0`N`#` ,`"``?`\_\_\_\_P`
M` `` ``!4!` `#X`
M`%\`7P!S`'4`8@!S`'0`9P`Q`"X`, !?'`#`,` ,`P`#`(` ,`P`#\$`10`
M` `` ``J` `(!`\_\_\_\_`
M` `` ``%`\$` `4` ``7P!?'',`=0!B`
M=0!B'',`= !G`#\$`+@`P`%\`,P`P`#` ,P`P`#` ,0!%`
M` `` ``"H`@&^`P@` `/_`____\
M` `` `3`0`&` ``!?'`%\`<P!U`&(`<P!T`
M`&<`,`0`N`#` `7P`S`#` ,`Q`#` ,`Q`\$4`
M` `` `` `\*@`"``+\`"``\` ``P`
M` `` ``!(` ``%\`7P!S`'4`8@!S`'0`9P`Q`"X`
M, !?'`#` `1@!&`#8`, `Q`#` ,@`J`
M` `(!`\_\_\_\_\` `#`____`
M` `` `\$0\$` `0` ``7P!?'',`=0!B'',`= !G`#\$`+@`P`%\`, !&
M`\$8`1@`P`#\$`, `R` "H`@#`_____
M`\_\_\_\_\_\` ,0`
M`0` `/\_` `` ``!?'`%\`<P!U`&(`<P!T`&<`,`0`N`#` `7P`S`#` ,`!"`#`
M,0`P`#`(` `\*@`"``?`\_\_\_\_#` ``
M_P` `` ``\`!` ``=``
M` `` ``%\`7P!S`'4`8@!S`'0`9P`Q`"X`, !?'`#`,`00`R`#` ,`P`#\$`10`
M` `` ``J` `(`P0` `+L` `#`____`
M` `` ``#@0\$` `<` ``7P!?'
M`',`=0!B'',`= !G`#\$`+@`P`%\`,P`Y`\$8`1@`P`#` ,0!%`
M` `` ``"H`@#`_____\`
M` `` ``-`0`!0` ``!?'`%\`<`!R`&`\`
M<`!E`'(`= !I`&4`<P!?'`8`90!R`',`:0!0`&X`,`0`N`#`
M` `` `` ,`"``?`\_\_\_\_P`

M " , ! ' (0 % \ 7P!S ' 4`8@!S ' 0`9P`Q
M "X` , !?`# , ` P`#(` P`# \$ 10
M `` J` ` (! _____
M (@ \$, 7P! ? ` ' , ` = 0 ! B ` ' , ` = ! G`# \$ ` + @ ` P`% \
M , P` P`# ` , P` P`# ` , 0 ! % "H` @`
M `` RP` / ____ \
M `` A` 0` + 0 ! ? ` % \ < P ! U` & (< P ! T` & < , 0` N`# ` 7P`S`# ` , ` Q
M`# ` , ` Q` \$ 4 * @ ` " < @ ` # %
M _____ P
M `` % \ 7P!S ' 4`8@!S ' 0`9P`Q` "X` , ! ? `# ` 1@!&`# 8` , ` Q`#`
M , @ J` ` (! _____ \ D` `# _____
M ` P \$ ` 0`
M 7P! ? ` ' , ` = 0 ! B ` ' , ` = ! G`# \$ ` + @ ` P`% \ , ! & ` \$ 8` 1@` P`# \$, ` R
M `` "H` @ # _____ \
M ` = 0` 20` ! ? ` % \ < P ! U
M ` & ( < P ! T` & < , 0` N`# ` 7P`S`# ` , ! " `# , 0` P`# ( ` P`
M ` \* @ ` " / _____ P
M ` ! P ! ` P` % \ 7P!S ' 4`8@!S ' 0`
M 9P`Q` "X` , ! ? `# , 00`R`# ` , ` P`# \$ 10
M `` J` ` (! S0` , 0` `# _____
M ` & P \$ ` X` 7P! ? ` ' , ` = 0 ! B ` ' , ` = ! G`# \$ ` + @ ` P
M ` % \ , P`Y` \$ 8` 1@` P`# ` , 0 ! % "H`
M ` @ # _____ \
M ` : 0` " @ ! ? ` % \ < P ! U` & (< P ! T` & < , 0` N`# ` 7P`S`# D`
M 1@!%`# ` , ` Q` \$ 4 * @ ` " < H` `# ,
M ` _____ P ! D!
M ` 6` % \ 7P!P` ( ` ; P!P` & 4` < @ ! T` & D` 90!S`% \ = @ ! E` ' (< P ! I
M ` & \ ; @`Q` "X` , P` ` (! _____
M ` , \$` / @
M `` 7P! ? ` ' , ` = 0 ! B ` ' , ` = ! G`# \$ ` + @ ` P`% \ , P`P`# ` , @`P`# ` , 0 ! %
M `` "H` @ ' _____ \
M ` 0` 0` 10` ! ? ` % \
M < P ! U` & ( < P ! T` & < , 0` N`# ` 7P`S`# ` , `S`# ` , `Q` \$ 4
M ` \* @ ` " = \$` # 5` _____ P
M ` "X!` 4` % \ 7P!S ' 4`8@!S
M ` 0`9P`Q` "X` , ! ? `# , ` , `P`# \$ , `P`# \$ 10
M ` J` ` ( T @ ` , \ `# _____
M ` + 0 \$ ` D` 7P! ? ` ' , ` = 0 ! B ` ' , ` = ! G`# \$ `
M + @ ` P`% \ , ! & ` \$ 8` - @`P`# \$, `R
M `` "H` @ ' \_\_\_\_\_ TP` ` / ____ \
M ` L` 0` ! ! ? ` % \ < P ! U` & ( < P ! T` & < , 0` N`# ` 7P`P
M ` \$ 8` 1@!&`# ` , 0` P`# (` \* @ ` " / ____
M _____ P
M "L!` `Z` % \ 7P!S ' 4`8@!S ' 0`9P`Q` "X` , ! ? `# , ` , `P`\$ (`P`
M , `Q`# ` , @ J` ` (! \_\_\_\_\_ ] 8` `# _
M _____ * @ \$ ` ! D`
M `` 7P! ? ` ' , ` = 0 ! B ` ' , ` = ! G`# \$ ` + @ ` P`% \ , P! ! `# ( ` , `P`# ` , 0 ! %
M `` "H` @ # 4` S @ ` / ____ \

M`.....I`0`"0`.....!?
M`%\M`.....*@`"/\_\_\_\_\_P`
M`....."@!`.....%\M;P!P`&4`<@!T`&D`90!S`%\M`.....P`'(!\_\_\_\_\_`
M`...../`\$`/`@`.....7P!?'`,`=0!B`'`,`= !G
M`#\$`+@`P`%\M`....."H`@'_____\
M`.....[`0`!0`.....!?'%\M7P`S`#`,`S`#`,`Q`\$4`.....\*@`"
M`=H`#>`\_\_\_\_\_P`
M`.....#H!`6`.....%\M`#\$`,`P`#\$`10`.....J`'(`VP`-@`
M`#`_____0\$`
M`T`.....7P!?'`,`=0!B`'`,`= !G`#\$`+@`P`%\M`,`R`....."H`@'\_\_\_\_\_W`'/____\
M`.....X`0`!
M`!?'%\M`.....*@`"/\_\_\_\_\_P`
M`.....#<!`!`.....%\M`'4`8@!S`'0`9P`Q`"X`, !?'#`,`P`\$(``,`Q`#`,`@`
M`.....J`'(!_____]`#`_____`
M`.....-@\$`!L`.....7P!?'`,`=0!B`'`,`
M= !G`#\$`+@`P`%\M`....."H`@#`= `UP`'/____\
M`.....U`0`#0`.....!?'%\M`#`7P`S`#D`1@!&`#`,`Q`\$4`
M`\*@`"/_____P`
M`.....#0!`+`.....%\M=@!E`'(`<p!I`&\`;@`Q`"X`,P`'(!\_\_\_\_\_`
M`_____
M20\$`'/@`.....7P!?'`,`=0!B`'`,`= !G`#\$`+@`P`%\M`#`,`0!%`....."H`@'_____`
M`\_\_\`.....!(`0`!0`
M`.....!?'%\M`.....*@`">`,`#G`_____P`
M`.....\$<!`5`.....%\M7P!S`'4`8@!S`'0`9P`Q`"X`, !?'#`,`P`#\$`,`P`#\$`10`
M`.....J`'(`Y`\$.`#`_____`
M`.....1@\$` \`.....7P!?'`,`=0!B
M`'`,`= !G`#\$`+@`P`%\M`....."H`@'\_\_\_\_\_Y0`'/____\
M`.....!%`0`!`.....!?'%\M,0`N`#`7P`P`\$8`1@!&`#`,`0`P`#(``
M`.....\*@`"/_____P`
M`.....\$,!`!!`.....%\M`#`,`P`\$(``,`Q`#`,`@`.....J`'(!`

M ^@`#`-----
M`00\$`!H`7P!?'`,`=0!B``,`=!G`#\$\$`+@`P`%`\`,`P!!`#(`
M`,`P`#`,`0!%`"H`@#F`X`
M`/`____`\`!!`0`
M#P`!?'`%`\`<P!U`&(`<P!T`&<`,`0`N`#`7P`S`#D`1@!&`#`,`Q`
M`\$4`*@`"/`-----P`
M`\$!`-`
M`%`\`7P!P`'(`;P!P`&4`<@!T`&D`90!S`%`\`=@!E`'(`<P!I`&`\`;@`Q`"X`
M`,`P`'(!`-----
M`5P\$`@!`7P!?'`,`
M=0!B`'`,`=!G`#\$\$`+@`P`%`\`,`P`P`#`,`@`P`#`,`0!%`
M`"H`@`'-----\
M`!6`0`P`!?'`%`\`<P!U`&(`<P!T`
M`&<`,`0`N`#`7P`S`#`,`S`#`,`Q`\$4`
M`\*@`">P`#P`-----P`
M`%4!`M`%`\`7P!S`'4`8@!S`'0`9P`Q`"X`
M`,`!?'`#`,`P`#\$\$`,`P`#\$\$`10`J`
M`'(![0`H`#`-----
M`5`\$`!`7P!?'`,`=0!B`'`,`=!G`#\$\$`+@`P`%`\`,`!&`
M`\$8`-@`P`#\$\$`,`R`"H`@`'-----
M[@`/`____`\`!3`
M`0`!`!?'`%`\`<P!U`&(`<P!T`&<`,`0`N`#`7P`P`\$8`1@!&`#`
M`,`0`P`#(`\*@`"/`-----
M_P`%\$!`!`)
M`%`\`7P!S`'4`8@!S`'0`9P`Q`"X`,`!?'`#`,`P`\$(``,`Q`#`,`@`
M`J`'(`-----
M`4`\$`#`7P!?'`,`
M`'`,`=0!B`'`,`=!G`#\$\$`+@`P`%`\`,`P!!`#(``,`P`#`,`0!%`
M`"H`@`R`Z0`/`____\
M`!/`0`\$`!?'`%`\`<P!U`&(`
M<P!T`&<`,`0`N`#`7P`S`#D`1@!&`#`,`Q`\$4`
M`\*@`"/`-----P`
M`\$X!`*`%`\`7P!S`'4`8@!S`'0`9P`Q`
M`"X`,`!?'`#`,`0!&`\$4`,`P`#\$\$`10`J`
M`J`'(![P`/\$`#`-----
M`30\$`!@`7P!?'`<@!0`'90!R`'0`!E`'`,`
M7P!V`&4`<@!S`&D`;P!N`#\$\$`+@`P`#`@`_`
M`-----\
M`!D`0`^`!?'`%`\`<P!U`&(`<P!T`&<`,`0`N`#`7P`S`#`,`R`
M`#`,`Q`\$4`\*@`"/`-----
M`-----P`&`,`!`%`
M`%`\`7P!S`'4`8@!S`'0`9P`Q`"X`,`!?'`#`,`P`#`,`P`#\$\$`
M10`J`'(![P`/H`#`-----
M`8@`\$`!\$`
M7P!?'`,`=0!B`'`,`=!G`#\$\$`+@`P`%`\`,`P`P`#`,`0`P`#`,`0!%`
M`"H`@`#W`]/`____\
M`!A`0`!P`!?'`%`\`<P!U`
M`&(`<P!T`&<`,`0`N`#`7P`P`\$8`1@`V`#`,`0`P`#(`

M`.....\*@""?\_\_\_\_\_X`.....P`.....
M`.....&!`\$`.....%\`7P!S`'4`8@!S`'0`
M9P`Q`"X`,!`?`#`'1@!&`\$8`,`Q`#`,`@`.....
M`.....J`(`\_\_\_\_\_7P\$`'#4`.....7P!?'`,`=0!B``,`=!G`#\$`+@`P`
M`%\`,`P`P`#`'0@`P`#\$`,`R`....."H`
M`@`'____^P`'/____\
M`.....!>`0`%@`.....!`?`%\`<P!U`&(`<P!T`&<`,`0`N`#`'7P`S`\$\$`
M,@`P`#`,`Q`\$4`.....*@"`/D``#S`
M`.....P`.....%T!`
M`.....%\`7P!S`'4`8@!S`'0`9P`Q`"X`,!`?`#`,`.0!&`\$8`,`P`
M`#\$`10`.....J`(`\_\_\_\_\_7`\$`'4`
M`.....7P!?'`,`<@!0`'90!R`'0`!0!E``,`7P!V`&4`<@!S`&D`P!N`#\$`
M+@`P`.....#`'@`'_____\`.....
M`.....!R`0`"``\$`.....!`?`%\`
M<P!U`&(`<P!T`&<`,`0`N`#`'7P`S`#`,`R`#`,`Q`\$4`.....
M`.....\*@""?\_\_\_\_\_P`.....
M`.....'\$!`'#`.....%\`7P!S`'4`8@!S`
M`'0`9P`Q`"X`,!`?`#`,`P`#`,`P`#\$`10`.....
M`.....J`(!_P``,`!`#`\_\_\_\_\_`.....
M`.....<\$`"T`.....7P!?'`,`=0!B``,`=!G`#\$`
M+@`P`%\`,`P`P`#`,`0`P`#`,`0!%`.....
M`"H`@\$`'0`'_0`'/____\
M`.....!0`0`%0`.....!`?`%\`<P!U`&(`<P!T`&<`,`0`N`#`'7P`P`
M`\$8`1@`V`#`,`0`P`#(`.....\*@""?\_\_`
M`\_!\`'0`'\_P`.....
M`&X!`\$`.....%\`7P!S`'4`8@!S`'0`9P`Q`"X`,!`?`#`,`'1@!&`\$8`
M`,`Q`#`,`@`.....J`(`_____`
M`\_\_\_\_\_`;\$`'\$D`
M`.....7P!?'`,`=0!B``,`=!G`#\$`+@`P`%\`,`P`P`#`'0@`P`#\$`,`R`
M`....."H`@#`_____\
M`.....!K`0`,`.....!`?`
M`%\`<P!U`&(`<P!T`&<`,`0`N`#`'7P`S`\$\$`,`@`P`#`,`Q`\$4`.....
M`.....\*@"`'04!`#`_____P`.....
M`.....&H!`'5`.....%\`7P!S`'4`
M8@!S`'0`9P`Q`"X`,!`?`#`,`.0!&`\$8`,`P`#\$`10`.....
M`.....J`(`\_\_\_\_\_`
M`.....:0\$`'H`.....7P!?'`,`=0!B``,`=!G`
M`#\$`+@`P`%\`,`P`Y`\$8`10`P`#`,`0!%`.....
M`....."H`@\$`'0`'!`\$`'/____\
M`.....!H`0`'0`.....!`?`%\`<!R`&`\`<!E`'(`=!I`&4`
M<P!?'`'8`90!R`,`:0!0`&X`,`0`N`#`.....`,`
M`?`_____P`.....
M`.....\!`'#X`.....%\`7P!S`'4`8@!S`'0`9P`Q`"X`,!`?`#`,`P`
M`#(``,`P`#\$`10`.....J`(!\_\_\_\_\_`
M`\_\_\_\_\_`?@\$`
M`'4`.....7P!?'`,`=0!B``,`=!G`#\$`+@`P`%\`,`P`P`#`,`P`P`#`

M,0!%"H`@\$)`0`#0\$`/_----\
M`.....!`0`%P`.....
M`!`%`<P!U`&(`<P!T`&<`,`0`N`#`7P`S`#``,`Q`#`,`Q`\$4`.....
M`.....\*@`"``H!``0`-----P`.....
M`.....P!`.....%`\7P!S`.....
M`'4`8@!S`'0`9P`Q`"X`,`!`?`#`1@!&`#8`,`Q`#`,`@`.....
M`.....J``(!-----PL!`#-----`.....
M`.....>P\$`0`.....7P!`?`,`=0!B`,``,`
M`= !G`#`\$`+@`P`%`\`,`!&`\$8`1@`P`#`\$`,`R`.....
M`....."H`@#`-----\
M`.....!Z`0`P`.....!`?`%`\<P!U`&(`<P!T`&<`,`0`N`.....
M`#`7P`S`#`,`!`"``#`,`0`P`#(`.....
M`\*@`"``?`-----\.`0`-----P`.....
M`.....D!`<`.....%`\7P!S`'4`8@!S`'0`9P`Q`"X`,`!`?`#`,`
M00`R`#`,`P`#`\$`10`.....J``(`#`\$`.....
M`8!`#`-----
M> `\$`<`.....7P!`?`,`=0!B`,``,`= !G`#`\$`+@`P`%`\`,`P`Y`\$8`1@`P`.....
M`#`,`0!%`....."H`@#`-----
M`\_\_\`.....!W`0`!0`.....
M`.....!`?`%`\<P!U`&(`<P!T`&<`,`0`N`#`7P`P`#`,``,`R`#`,`0`P`#(`.....
M`.....\*@`"``/`-----P`.....
M`...../[\_\_\_\_\`.....#PU`.....
M,3 T0SE&.\$(P0C5\$,3\$Q.\$,R-3 P,#!&.# V,C4S-T8Q0S<U0T!E;7-S,#)M`.....
M,3,N96US+FQM8V\N8V]M/@`.....
M`.....3V@@0V%N861A`.....
M`.....\$E032Y.;W1E`.....
M`.....!387EL97,L(%=I;&QI86T`.....
M`.....-RG0,C 0A :M+D(`"LOX8(!`....."]//4Q-0T\03U4]4TE4`.....
M13 R+T-./5)%0TE0245.5%,00TX]4D1",3(S,3 T`.....
M`.....!387EL`.....
M97,L(%=I;&QI86T`.....
M`.....-RG0,C 0A :M+D(`"LOX8(!`....."]/
M/4Q-0T\03U4]4TE413 R+T-./5)%0TE0245.5%,00TX]4D1",3(S,3 T`.....
M`.....!C/553.V\$]051434%)3#MP/4Q-0T\[;#U%35-3,#)-,30M.3@Q`.....
M,# U,34R.#0Q6BTW.#0R`.....15@Z+T\]3\$U#3R]/53U3251%`.....
M,#(00TX]4D5#25!)14Y44R]#3CU21\$(Q,C,Q,#0`.....
M`%-A>6QE<RP@5VEL;&EA;0`.....
M`.....03SU,34-/+T]5/5-)5\$4P,B]#3CU214-)`.....
M4\$E%3E13+T-./5)\$0C\$R,S\$P-`.....15@`.....
M`.....#<IT#(P\$(0&K2Y" `K+^&"`0`.....03SU,`.....
M34-/+T]5/5-)5\$4P,B]#3CU214-)4\$E%3E13+T-./5)\$0C\$R,S\$P-`.....
M`.....15@Z+T\]3\$U#3R]/53U3251%,#(00TX]4D5#25!)14Y44R]#3CU2`.....
M1\$(Q,C,Q,#0`.....%-A>6QE<RP@5VEL;&EA;0`.....

M`.....`O
M3SU,34-/+T]5/5-)5\$4P,B]#3CU214-)4\$E%3E13+T-./5)\$0C\$R,S\$P-`
M`.....15@`
M`.....`#<IT#(
MP\$(0&K2Y" `K+^&"`0`.....`03SU,34-/+T]5/5-)5\$4P,B]#3CU214-)
M4\$E%3E13+T-./5)\$0C\$R,S\$P-`
M`.....15@Z+T\]3\$U#3R]/53U3
M251%,#(00TX]4D5#25!)14Y44R]#3CU21\$(Q-CDT,#D`
M`...%-E:V%C+"!%9`
M`.....`03SU,34-/+T]5/5-)5\$4P,B]#3CU2
M14-)4\$E%3E13+T-./5)\$0C\$V.30P.0`.....15@`
M`.....`#<IT#(P\$(0&K2Y" `K+^&"`0`.....`O
M3SU,34-/+T]5/5-)5\$4P,B]#3CU214-)4\$E%3E13+T-./5)\$0C\$V.30P.0`
M`.....`#<
M`.....15@Z+T\]3\$U#3R]/53U3251%,#(00TX]4D5#25!)14Y44R]#
M3CU21\$(Q-CDT,#D`.....%-E:V%C+"!%9`
M`.....`#<
M`...`03SU,34-/+T]5/5-)5\$4P,B]#3CU214-)4\$E%3E13+T-./5)\$0C\$V.30P
M.0`.....15@`
M`.....`#<
MIT#(P\$(0&K2Y" `K+^&"`0`.....`03SU,34-/+T]5/5-)5\$4P,B]#3CU2
M14-)4\$E%3E13+T-./5)\$0C\$V.30P.0`
M`.....;WP=*F:./(TJEPT
M\$=* L@!@")09^`
M`.....\$]H(\$-A;F%D80`
M`.....!Z`P``(P4``\$Q:1G6,DQ+)`P`*
M`')C<&<Q,C7^,@#\_`@8"I /D!>L"@P!0\$P-4`@!C: K <V5T_C(&``;#`H,.
M4 /5!Q,"@]XS!\$<(50>R`H,T`\4"``AP<G\$2XG-T96W]`H!]"H (SPG9`H *
M@0YQY0M@;@X0,#,4X L*%.\$%")C#J @ (D]H+ ,5< !P861A(B H\$YA=&D"
M(=%#% ", IH%[@'6!T;&4I6PJ%"H5/'Z =\2 `D'@%'? @'/!Y(&]F(.T%
M`&4=4QR01P1P'C (</9N"8 >,&?HP<0\$G\$:@/IE`R!'': (@@,@`' A@))S
M"W!D+ J%(E0\$<)L@8!R022.0'B!G;PN SF<B`B#H']!A(!IA(8">8P= 'G A
M@!RT+B E\$.<%0 /P)P`@8B97() *A?T(8'07D".A)9(<T"&A': '5*&!A*:!Y
M)[1S\$H H,;T2@'8?T &0*#H`P&H'D'T=8&,L@ A@`C +<00@90YU*#H\$I!RTF
M)6\$=4 0@ (Z+U(.!G'G!S') JTP:0+= "S'^ *L6ML)9(+8&L'D3\&X"U!,*,#
M\" A)N!R</LCD@J%= -@*: <D (0&-!G%Y MIR_ ;&LCDP1@;^,2L!R0:&EG
M,L\$Q0 Z0E00@;RP0<AA@;VLEDO\CX".P(' JT1)P!Y *A3*3SP.1`: M0!SP
M;F,?T""1;Q*P)G\$&D#8!;SG@!B)F_R@A(>\$RE 1P') CH@40-P%_!" 7D#K@
M,; S5C*3(^!L\01@;BxB'JPA8@6@,B'V;@I0/#\$B)2 KE # ,;#0'Z,FDP40
M\$G @+P\$E@".\$_FT+@ 20!T P(3*3-P\$YL:YT"H4T11R0<R(@800@[R(102<+
M@!* 8AY01#\$\$(/L7(#7@< 20)[(KA2;B'Z)_ \$K *A4:*+',, ")[%4#QX`
M(' KE"AA:VY0=_\Y446A'\\$\$8!>0+; (@2.PMFP@<\$> ;PM0.?%N,V:7'\\$@
MX `@:#ZN(D(IH/P@3 6P)! =\$\$60/5\$C%M5 <60>("<%0'D(8!^A_PN -6!2
M,@K '] H8"64(B!_(N!#(0A@1:).&!*P2B@_ ^4\N3F\%0"#1)P`D\!T0/QC0
M"U (D%\$1!' GL2)*_U10)_\$+< 5 (Z,)X!^C(=!G-D\$Q\3SA22<E6 J%9_L\
ML1^B;3ZG"OL3L@'0'P8%%_ \$`7R ``")/2"Q#04Y!1\$B*\$Y!5\$E/3D%,04Y4
M2\$5-5\$E43\$4I3TY42\$5325A42\$1!64]&0U)%051)3TXL1T]\$5%523D5\$5\$]4

M2\$5!4D-(04Y'14Q'04)2245,04Y\$4T%)1"PB5\$]\$05D`.....
M`.....(D]H+"!#86YA9&\$B("A.871I;VYA;"!!;G1H96T@
M=&ET;&4I#0H-"D]N('1H92!S:7AT:"!D87D@;V8@8W)E871I;VXL(\$=09"!T
M=7)N960@=&\@=&AE(\$%R8VAA;F=E;"!'86)R:65L(&%N9"!S86ED+ T*(E10
M9&%Y+"!)(&%M(&=0:6YG('10(&-R96%T92!A(&QA;F0@8V%L;&5D(\$-A;F%D
M82X@(\$ET('=I;&P@8F4@82!L86YD(&]F#0I0=71S=&%N9&EN9R!N871U<F%L
M(&)E875T>2X@(\$ET('H86QL(&AA=F4@=&%L;"!M86IE<W1I8R!M;W5N=&%I
M;G,@9G5L;"!09@T*;6]U;G1A:6X@9V]A=',@86YD(&5A9VQE<RP@8F5A=71I
M9G5L('P87)K;&EN9R!L86ME<R!B;W5N=&EF=6P@=VET:"!C87)P(&%N9 T*
M=')0=70L(&90<F5S=',@9G5L;"!09B!E;&L@86YD(&UO;W-E+"!H:6=H(&-L
M:69F<R!0=F5R;&]O:VEN9R!S86YD>2!B96%C:&5S#0IW:71H(&%N(&%B=6YD
M86YC92!09B!S96\$@;&EF92P@;V-E86YS(&9I;&QE9"!W:71H(&-09"P@86YD
M(')I=F5R<R!S=&]C:V5D#0IW:71H('A;&UO;BxB#0H-"D=09"!C;VYT:6YU
M960L("))('H86QL(&UA:V4@=&AE(&QA;F0@<FEC:"!I;B!O:6P@86YD(&UI
M;F5R86QS+"!W:71H('9E<F1A;G0-"F90<F5S='L('O(&%S('10(&UA:V4@
M=&AE(&EN:&%B:71A;G1S('!R;W-P97(N("))('H86QL(&-A;&P@=&AE<V4-
M"FEN:&%B:71A;G1S(\$-A;F%D:6%N<RX@(%1H97D@<VAA;&P@8F4@:VYO=VX@
M87,@=&AE(&UO<W0@9G)I96YD;'D@<&50<&QE(&]N#0IT:&4@96%R=&@N(@T*
M#0HB0G5T(\$Q0<F0L(B!A<VME9"!86)R:65L+" B9&]N)W0@>6]U('1H:6YK
M('EO=2!A<F4@8F5I;F<@=&]O(&=E;F5R;W5S('10#0IT:&5S92!#86YA9&EA
M;G,_(@T*#0HB3F]T(')E86QL>2PB(')E<&QI960@1V]D+B @ (DIU<W0@=V%I
M="!A;F0@<V5E('1H92!N96EG:&)0=7)S(\$DG;2!G;VEN9R!T;PT*9VEV92!T
M:&5M+B(-"@T*.....E#U:=U)<TA&"&P`^ 8G
MNP`.....
M`.....%@`.....6`.....0`',(`.....
M0#6"<?&]'4`"#`"+PU@G'Q00\$#`/ </`@`.....!`.....P#T#P(`
M`.....\_0\_\_\_QX`!X`.....\*0\$`.....>`,`@`.....\$`.....#`.....'@`"
M#f@(`.....!`.....P`.....(!"S`&`.....\$`.....,EP\$+`,`!@`.....
M"P`I`8`.....%`\7P!S`'4`8@!S`'0`9P`Q`"X`,`!`?`#`,`P
M`#`,`Q`#`,`@`.....J`(!#P\$`!\$!
M`#`_____0___
M_P`.....7P!`?`,`=0!B`,`=!G`#\$`+@`P`%\`,`P`#`-`P`#\$`
M`,`R`....."H`@#`_____\
M`.....#^`_____
M`.....
M`...../`_____P`.....
M`.....
M`.....
M`.....
M`.....
M`.....P`F`8`.....
M`.....,`-@`&`.....>`,`0!@`.....\*P#`#`.....P`&\$`8`....."I
MQAEL`.....,!Q`&`.....Z(`.....>`,`00!@`.....&4`.....#`.....P`0\$`8`
M`.....,\$1`&`....."0D0!@`.....'X#`#`.....)<!'@!P
M`8`.....*`.....P`.....(!<0`&`.....%@`.....,EP%`#D`!@`.....'E=+]5T\+T!
M`P#Q/P8`.....)!`.....(!00`&`.....20`.....,EP\$>`&0`!@`.....#`
M`.....@!E`8`.....M`.....P`.....!X`0@`&`....."@`.....,`3L`!@`.....#`
M`.....#`)<!'P`0`8`.....(!&0P&`.....20`.....,EP\$>`!X,!@`..
M`,`#`#`.....'@`?#`8`.....M`.....P`.....!X`&@P&`....."@`.....,`....."1T,

M!@`'#`'#')<!`P`90`8`'L`'PX&`'0`'`'#`
M`/T\_!@`'.0\$`'P`'#08`'!`'\$`'!@X&`'X,>6JW3P`
M00\$`"3\`!@`'\$D`'`'#')<!`'@!U`'8`'`'#`'P`'!X`=@`&`'+0`'
M`',`'`>`\$`'!@`'!`'`'#`'`'@%1`'8`'P`'P`"7`0`,`&T`&`'`'
M`'`'`"4`,`!@`'\$D`'`'#')<!`'@!W`'8`'`'#`'P`'!X`>`&`'
M`'+0`',`'`>`\$0`!@`'!`'`'#`'`'@%2`'8`'P`'P`"7`0`,`
M`'\$`&`'+`%<`!@`'\$`'"P!8`'8`'
M`'L`60`&`'0`'"4<`!@`'#4`'`'#')<!`'@`Y/P8`'!)`'
M`P`"7`1X`^#`&`'\$`',`'`"?'L\_!@`'\$D`'`'#')<!`'@`#Z/P8`'`0`
M`'P`'!X`&@`&`'"0`',`'`>`#<`!@`'L`'`'#`'!@`']`'8`
M`'"P`'!X`'0X`'"@`',`"0\$#`!<`!@`'\$`'!@`'U`
M\$`8`'!`'P`',`'(PX&`NOD`'@2L?I+ZC\$!F=;@#`=
M`0]4`@`'1!C;&%R:RYB<F]W;D!L;6-0+F-0;0!33510`&-L87)K+F)R;W=N
M0&QM8V\N8V]M`
M`'`'`&-L87)K+F)R;W=N0&QM8V\N8V]M`'`'
M`'`'`!C;&%R`
M:RYB<F]W;D!L;6-0+F-0;0`
M`'`'0G)0=VXL(\$-L87)K`
M`'`'`\$58.B]//4Q-0T\0`
M3U4]4TE413`R+T-./4A%4DE404=%+T-./4-,05)++D)23U=.0\$Q-0T\N0T]-`
M`'`'`W\*=R,!"\$!JTN0@`*R_A@@\$`'`&`'+T\]3\$U#3R]/`
M53U3251%,#(00TX]2&5R:71A9V408VX]8VQA<FLN8G)0=VY`;&UC;RYC;VT`
M`'`'`\$58`
M`'`'!X`C`&`
M`'P`',`'`>`,`P!@`'#8`'`'#`'!@`!,`8`'-`P`'(!`
M]@&`'!`',`Z0`#`!4,!@`'\$`'`'@`\_#P8`'!2`'P#I`
M`'(!"S`&`'.0`',`Z0`>`"Z!@`'T`'`'#`'P`/#08`'!`'`
M`'L`0#H&`'`'#`/X/!@`'8`'P`'.08`'`&`
M`'!X`_SD&`'%0`',`'`'#`'\$Z!@`'`'@`#^'.08`
M`'5`P`'(!^0&`'1P`',`EP\$#`P!@`'!4`
M`'`'`"!\*Q^D`
M0J,0&9UN`-T!#U0`'`'\$&MA;&%N:2YM86-G:6QL0&QM8V\N8V]M`%-5%`
M:V%L86YI+FUA8V=I;&Q`;&UC;RYC;VT`
M`'`':V%L86YI+FUA8V=I;&Q`
M;&UC;RYC;VT`
M`'`&MA;&%N:2YM86-G:6QL0&QM8V\N8V]M`
M`'`'!-86-G:6QL+"!+86QA;FD`
M`'`'15@Z`
M+T\]3\$U#3R]/53U3251%,#(00TX]2\$52251!1T400TX]2T%,04Y)+DU!0T=)`
M3\$Q`3\$U#3RY#3TT`'`'#<IT#(P\$(0&K2Y"`K+^&`"0`'8`'0`
M3SU,34-/+T]5/5-)5\$4P,B]#3CU(97)I=&%G92]C;CUK86QA;FDN;6%C9VEL`
M;\$!L;6-0+F-0;0`
M`'`'`%

M`\$UA8V=I;&PL(\$MA;&%N:0`
 M`03SU,34-/ +T]5/5-)5\$4P,B]#3CU(97)I=&%G92]C;CUK86QA;FDN;6%
 M9VEL;\$!L;6-0+F-0;0`15@`
 M`@",8`#`P`!X`S`&`.0`,`>`\$P!@`!`
 M`#`@'V#P8`\$`P#I`,`%0P&`0`" `?\/!@`
 M`%4`#`.D`@\$+,8`#`P#I`!X`(#H&`\$`,`+`\
 M!@`\$`"P!`.@8`,`\_@&`!@`#`
 M`Y!@`8`#@#\_.08`8`P`,`<3H&`
 M`>`/XY!@`!@`#`@'Y#P8`!-`P"7`0`,`#`&`%`
 M`
 M_O____[____^____O____[____^____O____[____^____)``B@``(L`#^`
 M____O____[____^____O____[____^____O____[____^5``E@``)<`
 M`#^____O____[____^____O____[____^____O____[____^A``H@``
 M`*,``#^\_\_\_\_O\_\_\_\_[\_\_\_\_^\_\_\_\_O\_\_\_\_[\_\_\_\_^\_\_\_\_O\_\_\_\_[\_\_\_\_^M``
 MK@`\*\\`#^____O____[____^____M``/[____^____O____[____^____
 M____N@``+L``"\\`_O____[____^____O____\\\$``#^____O____[____^____
 M____^____O____\\<``#(``R0``/[\_\_\_\_^\_\_\_\_O\_\_\_\_[\_\_\_\_^\_\_\_\_SP``
 M`/[____^____O____[____^____U0``-8`#7``V``/[____^____
 M_O____[____^____O____[____^____O____^(`#C``Y``/[____^____
 M____O____[____^____O____[____^____O____^X`#0``\\``/[____^____
 M____^____O____[____^____]@``/[____^____O____[____^____
 M`/T``#^``_P``/[____]W:6QL<W1I;&QM86X`
 M` )W=I;&QS=&EL`
 M;&UA;B<`
 M`%--5% Z5TE,3%-424Q,,4!!3TPN0T]-`
 M`@2L?I+ZC\$!F=;@#=`
 M`0]4`@``0`G=VEL;'-T:6QL;6%N)P!33510``=I;&QS=&EL;#%`86]L+F-0`
 M;0`\$P`
 M`"=W:6QL<W1I;&QM86XG`
 M`!W:6QL`
 M<W1I;&PQ0&%0;"YC;VT`
 M`4TU44`
 M`'@`"
 M,8`%`P`!X`S`&`\$P`,`>`\$P!@`\\`#`
 M`@'V#P8`\$`P#I`,`%0P&`0`" `?\/!@`#`#`
 M`.D`@\$+,8`#`8`#`P#I`!X`(#H&`#P`,`+`\\`!@`\$`
 M`"P!`.@8`,`_@&`!@`#`Y!@`
 M`#@#\_.08`-`P`,`<3H&`#`P`
 M!@`!,`!W86QT8F%K97(`
 M` )W=A;'1B`
 M86ME<B<`
 M`%--5% Z0D%(+15)70%-414Q#3U,N0T]-`
 M`@2L?I+ZC\$!F=`
 M;@#=`0]4`@``0`G=V%L=&)A:V5R)P!33510`&)A:V5R=T!S=&5L8V]S+F-0`
 M;0`\$@`
 M`"=W860T8F%K97(G`

M`.....!B
M86ME<G= <W1E;&-0<RYC;VT`.....
M`.....4TU44`.....
M`.....
M`@`", 8`...%`...P`...!X`S &`...\$P`...>`\$P!@`...P`...#
M`...@`V#P8`...\$`...P#I`...,%OP&`...0`..."?\/!@`...#P`
M`...#`.D`@\$+, 8`...8`...P#I`!X`(#H&`...#`...>`+`...!@`...
M`...\$`...P!`.08`...>`\_@`&`...!@`...#`...Y
M!@`...@#\_08`...*`...P`...>`3H&`...#`
M`...P!@`...!(`...!S87)A: `.....
M`.....)W-A
M<F%H)P`.....
M`.....%-5% Z3E%22#DX0T!04D]\$24=9+D-/30`.....
M`.....@2L?I+ZC
M\$!F=;@#=`0]4`@`...0`G<V%R86@G`%--5% `3E%22#DX0T!P<F]D:6=Y+F-O
M;0`...\$0`.....
M`....."=S87)A:"<`.....
M`.....
M`!.45)(.3A#0`!R;V1I9WDN8V]M`.....
M`.....4TU44`.....
M`.....
M`...@`", 8`...%`...P`...!X`S &`...%`...>`\$P!@`...@`
M`...#`...@`V#P8`...\$`...P#I`...,%OP&`...0`..."?\/!@`...#P`
M`#D`...#`.D`@\$+, 8`...9`...P#I`!X`(#H&`...#`...>`+`...!@`...
M!@`...\$`...P!`.08`...>`\_@`&`...!@`...#`
M`...Y!@`...@#_08`...&`...P`...>`3H&`...#`
M`...#`...P!@`...!\$`...!M875R:6-E`.....
M`.....
M)VUA=7)I8V4G`.....
M`.....%-5% Z34%54DE#12Y-3T]214!-0TDN0T]-
M`.....@2L?
MI+ZC\$!F=;@#=`0]4`@`...0`G;6%U<FEC92<`4TU44`!M875R:6-E+FU0;W)E
M0&UC:2YC;VT`...\$`.....
M`....."=M875R:6-E)P`.....
M`.....
M`...!M875R:6-E+FU0;W)E0&UC:2YC;VT`.....
M`.....4TU44`.....
M`.....
M`...@`", 8`...%`...P`...!X`S &`...%`...>`\$P!@`...@`
M`...H`...#`...@`V#P8`...\$`...P#I`...,%OP&`...0`..."?\/!
M!@`...#T`...#`.D`@\$+, 8`...;`...P#I`!X`(#H&`...#`...>`+`...!@`...
M`...!@`...\$`...P!`.08`...>`_@`&`...!@`...#`
M`...#`...Y!@`...@#\_08`...(`...P`...>`3H&`...#`
M`...#`...P!@`...!`...!M87)K=F%N9&5R9&]E<P`...
M`.....
M`...VUA<FMV86YD97)D;V5S)P`.....
M`.....%-5% Z34%60\$E.5\$523D5434-)+D-/
M30`.....

M@2L?I+ZC\$!F=;@#=#`0]4`@```0`G;6%R:W9A;F1E<F1097,G`%--5% `;6%V
M0&EN=&5R;F5T;6-I+F-O;0`
M`.....\
M`.....
M`.....G;6%R:W9A;F1E<F1097,G`.....
M`.....;6%V0&EN=&5R;F5T;6-I+F-O
M;0`.....
M`%--5%`.....
M`.....!X`C &````!0``,``,`>
M`,`P!@````!0`````#`````'@`!, 8`````1`````P`````(!]@`&````!``,``,`
MZ0`#`!4,!@````\$`.....@`_#P8`````!"P#I```(!"S &````&0```
M`,``,`Z0`>`" Z!@````!\$`````#`````"P`/`#08`````!`.....L`0`#H&`.....
M`.....#`/X/!@`8`.....P`..08`.....!X`_SD&
M`.....#P``,``,`#`'\$Z!@`.....P``,``,`8`````/`.....
M`.....:F]H;G-I;F=L9710;@`.....
M`....."=J;VAN<VEN9VQE=&]N)P`.....
M`.....!3
M3510.DI/2\$XN4TE.1TQ%5\$].0%125RY#3TT`.....
M`.....(\$K'Z2^HQ 9G6X`W0\$/5 (```\$`)VIO
M:&YS:6YG;&5T;VXG`%--5% `:F]H;BYS:6YG;&5T;VY ='')W+F-O;0`.....
M`.....
M`.....
M`.....)VIO:&YS:6YG;&5T;VXG
M`.....
M`.....&IO:&XN<VEN9VQE=&]N0'1R=RYC;VT`.....
M`.....!33510`.....
M`.....
M`.....>`(P!@````4`````#`````'@`# , 8`````7`````P`````!X`3 &````
M\$``,``,``,``,`"?8/!@`0`````#`..D`P`5# 8`````!`.....(!_P\&
M`1``,``,``,`Z0`"0LP!@`!P`````#`..D`'@`@.08`````0`````P`````L`
M#PX&`0`.....+ \$ Z!@`.....P#^#P8`````&`.....
M`,``,`#D&`.....>`/\Y!@`````X`````#`````P!Q.08`.....
M``,``,`# &`````#@`.....&II;6UI92YW86QK97) ;&UC
M;RYC;VT`.....
M`!21\$(Q,C(Y.34`.....
M`.....5V%L:V5R+"!\*:6UM:64`.....
M`.....\$58.B]/
M/4Q-0T\03U4]4TE413 R+T-./5)%0TE0245.5%,00TX]4D1",3(R.3DU`.....
M`.....W\*= R,!"\$!JTN0@`*R_A@@\$`.....+T\
M3\$U#3R]/53U3251%,#(00TX]4D5#25!)14Y44R]#3CU21\$(Q,C(Y.34`.....
M`.....
M`.....T`.....
M`.....!786QK97(L(\$II;6UI90`.....
M`.....
M+T\]3\$U#3R]/53U3251%,#(00TX]4D5#25!)14Y44R]#3CU21\$(Q,C(Y.34`
M`.....\$58`.....
M`.....
M`!X`C &````P````,``,``,`>`,``,`P!@````"T`````#`````'@`!, 8`````/`.....

M`P`'``'(!]@\\&`'``'!`'``',`Z0`#`!4,!@`'``'\$`'````````@`'\_#P8`'``'!)
M`'``'P#I`'``'(!"S &`'``',`'``',`Z0`>`" Z!@`'``'\`'``'`#`'``'`"P`'/#08`
M`'``'!`'````````L`0#H&`'``'0`'````````#`'/X/!@`'``'8`'````````P`'
M.08`'````````!X`\_SD&`'``'`"@`'``',`'``'`#`'`'\$Z!@`'``````````
M`'@#^`.08`'``'7`'``'P`'``',`'`# &`'``'`#0`'``',`'``````````
M`'``&AA
M>F5L`'``
M`'````````````````````G:&%Z96PG`'````````````````````````````
M`'````````````````````G:4TU44#I(0D%.
M2U,V,3,X0\$%/3"Y#3TT`'``````````````````````````````````````
M`'````````````````````"!*Q^DOJ,0&9UN`-T!#U0"``'``'!`"=H87IE;"<`4TU4
M4`!H8F%N:W,V,3,X0&%0;"YC;VT`'````````````````````````````
M`'``
M`'``'`)VAA>F5L)P`'``````````````````````````````````````
M`'````````````````````&AB86YK<S8Q,SA`86]L+F-0;0`'``````
M`'````````````````````!33510
M`'``
M`'````````````````````>`(P!@`'``'4`'``'`#`'``'`'@`'`#`,`8`
M`'``'3`'``'P`'``'!X`'3 &`'``'`"``'``',`'``'`"?8/!@`'``'0`'``'`#`'.D`'P`'5
M#`8`'``'!`'``````````(!_P\\&`'``'`'``',`Z0`"0LP!@`'``'!@`'``'`#`'.D`
M`'@`'@.08`'``'(`'``'P`'``'L`#PX&`'``'0`'``````````+'\$ Z!@`'``````
M`'``'P#^#P8`'``'&`'``',`#D&`'``'`>`/\Y!@`'``'8`
M`'``'`#`'``'P!Q.08`'``',`'`# &`'``'`#`'``````````
M`&5L:7IA8F5T:`'``````````````````````````````````````
M`'````````````````````G96QI>F%B971H)P`'````````````````
M`'````````````````````4TU44#I.
M45)(.3A"0%!23T1)1UDN0T]-`'``````````````````````````
M`'````````````````````"!*Q^DOJ,0&9UN`-T!#U0"``'``'!`"=E;&EZ86)E
M=&@G`%-`-5%`3E%22#DX0D!P<F]D:6=Y+F-0;0`'``'`+`'````
M`'``
M`'``````````)V5L:7IA8F5T:"<`'````````````````````
M`'````````````````````\$Y14D@Y.\$) <'`)09&EG>2YC;VT`
M`'````````````````````!3
M3510`'``
M`'````````````````````>`(P!@`'``'4`'``'`#`'``'`'@`'`#`
M,`8`'``'4`'``'P`'``'!X`'3 &`'``'`#`'``',`'``'`"?8/!@`'``'0`'``'`#`'.D`
M`P`'5#`8`'``'!`'``````````(!_P\\&`'``'`/0`'``',`Z0`"0LP!@`'``'!D`'``'`#`
M`'.D`'@`'@.08`'``',`'``'P`'``'L`#PX&`'``'0`'``````````+'\$ Z!@`'````
M`'``'P#^#P8`'``'&`'``',`#D&`'``'`>`/\Y!@`'``'
M`'H`'``'`#`'``'P!Q.08`'``',`'`# &`'``'`"P`'````
M`'``'`&1E86XN86QE>&%N9&5R0&QM8V\N8V]M`'````
M`'``````````!21\$(Q,C,R,C4`'````````````````
M`'````````````````````06QE
M>&%N9&5R+"!\$96%N`'````````````````````
M`'````````````````````\$58.B]//4Q-0T\03U4]4TE413`R+T-./5)%0TE0
M245.5%,00TX]4D1",3(S,C(U`'``'`W\*=`R,!`"
M\$!JTN0@`\*R\_A@@\$`'``'``+T\]3\$U#3R]/53U3251%,#(00TX]4D5#25!)
M14Y44R]#3CU21\$(Q,C,R,C4`'````````````````

M`.....H`
M`.....
M`!!;&5X86YD97(L(\$1E86X`
M`.....+T\]3\$U#3R]/53U3251%,#(00TX]4D5#
M25!)14Y44R]#3CU21\$(Q,C,R,C4`.....\$58`
M`.....
M`.....!X`C &`.....P`.....,>`,`P!@`
M`"T`.....#`.....'@`!, 8`.....0`.....P`.....(!]@&`.....!`.....,`Z0`#`!4,
M!@`.....\$`.....'@`\_#P8`.....!)`.....P#I`.....(!"S &`.....,`.....,`Z0`>
M`" Z!@`.....!`.....#`....."P`/#@8`.....!`.....L`0#H&`.....0`.....
M`.....#`/X/!@`.....8`.....P`......08`.....!X`\_SD&`....."@`
M`.....,`.....#`\$Z!@`.....@#^.08`.....8`.....P`.....,`# &`
M"@`.....,
M`...../[\_\_\_\_^\_\_\_\_0\_\_\_\_P0!`..#^____0____[____
M____^____0____PH!`...+`0`..# \$`../[____^____0____[____^____0____
M____[____^____0____Q8!`...7`0`..& \$`../[____^____0____[____^____0____
M`@\$`../[____^____0____[____^____) \$`.."4!`...F`0`..)P\$`../[____^____
M____0____[____^____0____[____^____0____S\$!`...R`0`..,P\$`../[____^____
M____^____0____[____^____0____[____^____0____ST!`...^`0`../P\$`
M`/[\_\_\_\_^\_\_\_\_0\_\_\_\_[\_\_\_\_]\$`0`\_0\_\_\_\_[\_\_\_\_^\_\_\_\_0\_\_\_\_[\_\_\_\_]\*`0`
M2P\$`..\$P!`..#^____0____[____^____0____U(!`..#^____0____[____^____
M____0____U@!`...!9`0`..6@\$`%L!`..#^____0____[____^____0____[____
M____^____0____[____]E`0`..9@\$`..&<!`..#^____0____[____^____0____[____
M_VT!`..#^\_\_\_\_0\_\_\_\_[\_\_\_\_^\_\_\_\_0\_\_\_\_W,!`...!T`0`..=0\$`..'8!`..#^____
M_0____[____^____0____[____^____0____[____^`0`..9&%V97(`.....
M`.....
M`....."=D879E<B<`.....
M`.....!33510.D1!5D5?4D]"25-/
M3D!33510+E-#4\$)/22Y#3TT`
M`.....(\$K`Z2^HQ 9G6X`W0\$/5 (``\$`)V1A=F5R)P!33510`&1A=F5?
M<F]B:7-0;D!S;71P+G-C<&)O:2YC;VT`
M`.....)
M`.....
M`.....)V1A=F5R)P`.....
M`.....&1A=F5?<F]B:7-0
M;D!S;71P+G-C<&)O:2YC;VT`
M`.....!33510`
M`.....>`,`(P!@`...`4`
M`..#`.....'@`#,#, 8`.....=`.....P`.....!X`3 &`.....".....,`....."?8/!@`
M`0`.....#`..D`P`5# 8`.....!`.....(!\_P\&`.....0@`.....,`Z0`"0LP
M!@`....."(`.....#`..D`'@`@.08`.....(`.....P`.....L`#PX&`.....0`.....+
M`\$ Z!@`.....P#^#P8`.....&`.....,`#D&`.....
M`..>`/\Y!@`.....8`.....#`.....P!Q.08`.....,`# &`....."0`
M`.....&1A=F4`
M`.....G9&%V92<`
M`.....
M`.....4TU44#I\$059)1%]314M!0T!(3U1-04E,+D-/30`
M`....."!\*Q^DOJ,0&9UN`-T!#U0"

M`"! "=D879E)P!33510`&1A=FED7W-E:V%C0&A0=&UA:6PN8V]M`
 M` )V1A=F4G`
 M`&1A=FED7W-E`
 M:V%C0&A0=&UA:6PN8V]M`
 M`!33510`
 M`>` (P!@`
 M`4` `#` `@`# , 8` `8` `P` `!X` 3 &` `!P` ` ,` ` "` ?8/
 M!@` `0` `#` .D`P`5# 8` `!` `(!\_P\&` ` /` ` ,`Z0`"
 M`0LP!@` `!T` `#` .D`@`@.08` `P` `L`#PX&` `0`
 M`+`\$ Z!@` `P#^#P8` `&` ` ,`#D&`
 M`>`/\Y!@` `4` `#` `P!Q.08` ` ,`# &`
 M"&)R96YD82YF<FET>D!L;6-0+F-0;0`
 M`!21\$(Q,C,S,S4`
 M`
 M`1G)I='HL(\$ )R96YD80`
 M`\$58.B]//4Q-0T\03U4]4TE4`
 M13 R+T- ./5)%0TE0245.5%,00TX]4D1",3(S,S,U`
 M`W\*= R,! "\$!JTN0@`*R_A@@` \$` `+T\]3\$U#3R]/53U3251%`
 M,#(00TX]4D5#25!)14Y44R]#3CU21\$(Q,C,S,S4`
 M`<`
 M`
 M`!&<FET>BP@0G)E;F1A`
 M`+T\]3\$U#3R]/53U3`
 M251%,#(00TX]4D5#25!)14Y44R]#3CU21\$(Q,C,S,S4`
 M`\$58`
 M`!X`C &` `P`
 M` ,` `>` ,P!@` "T` `#` `@`! , 8` `P` `(!]@&`
 M!` ,`Z0`#`!4,!@` \$` `@`_#P8` `!)` `P#I` `(!"S &`
 M` ,` ,`Z0`>` " Z!@` `X` `#` ` "P` /#08` `!` `L`
 M0#H&` `0` `#` /X/!@` `8` `P` .08`
 M`!X`_SD&` `"@` ` ,` `#` '\$Z!@` `!@#^ .08` `6`
 M`P` ` ,`# &` `!P` ` ,`
 M`&)08F=E90`
 M`
 M`G8F]B9V5E)P`
 M`4TU44#I'14520\$A!3E-#3TTN048N`
 M34E ,`
 M`"! \*Q^DOJ ,0&9UN`-T!#U0"``"! "=B;V)G964G`%- -5% `9V5E<D!H86YS`
 M8V]M+F%F+FUI;` &`
 M`)V)08F=E92<`
 M`
 M`&=E97) :&%N<V-0;2YA9BYM:6P`
 M`!33510`
 M`
 M`>` (P!@` `4` `#` `@`# , 8` `4` `P` `!X`
 M`3 &` `"0` ` ,` ` "` ?8/!@` `0` `#` .D`P`5# 8` `!`
 M`(! P\&` .@` ` ,`Z0`" 0LP!@` `!D` `#` .D`@`@.08` ` )`

M P L`#PX& 0 + \$ Z!@ P#^#P8`&
M` , #D& > /\Y!@ < #` P!Q.@8`
M` , # & !@` &)08B]I;F=R:60`
M`
M` G8F]B+VEN9W)I9"<
M` 4TU44#I35\$E,3\$E 3D544\$Q5
M4T- /32Y#3TT
M` " !\*Q^DOJ,0&9UN` -T!#U0"`` ! "=B;V(0:6YG<FED)P!33510` '-T
M:6QL:4!N971P;'5S8V]M+F-0;0`%
M`)V)08B]I
M;F=R:60G
M` -T:6QL:4!N971P;'5S8V]M+F-0;0
M` !33510
M`
M` >` (P!@` 4` #` '@# , 8` 6` P`
M` !X` 3 &` #0` ,` "?8/!@` 0` #` .D` P`5# 8` !
M` (!\_P\&` 0` ,` Z0` " 0LP!@` !L` #` .D` '@@.@8` -
M` P` L`#PX&` 0` + \$ Z!@` P#^#P8`
M` & , #D& > /\Y!@` L` #` P!Q
M.@8` , # & !0` &)08B]C:&EN
M7W-U:P
M` G8F]B+V-H:6Y?<W5K)P
M` 4TU44#I24T5+04- 0D5,
M3%- /551(+DY%5
M` " !\*Q^DOJ,0&9UN` -T!#U0"`` ! "=B;V(08VAI;E]S=6LG`%--
M5%` <G-E:V%CO&)E;&QS;W5T:"YN970`
M` !
M`
M` "=B;V(08VAI;E]S=6LG
M` !R<V5K86- 8F5L
M;'-O=71H+FYE=
M` 4TU44
M` '@", 8` %
M` P` !X` S &` %0` ,` >` \$P!@` \` #` '@V#P8`
M` \$` P#I` , %0P&` 0` " ?/\!@` \$\$` #` .D` @+\$
M, 8` :` P#I` !X` (#H&` #P` ,` +` \. !@` \$`
M"P!` .@8` , _@ \&` !@` #` Y!@`
M` '@#\_.08` -` P` , <3H&` #` P!@` 0`
M` !W:6QL:6%M+G-A>6QE<T!L;6-O+F-0;0
M` 4D1",3(S,3 T
M`
M` %-A>6QE<RP@5VEL;&EA;0
M` !%6#H03SU,34- /+T]5/5-)5\$4P
M,B]#3CU214-)4\$E%3E13+T- ./5)\$0C\$R,\$\$P-
M` -RG0,C 0A :M+D("LOX8(! "]//4Q-0T\03U4]4TE413 R
M+T- ./5)%0TE0245.5%,00TX]4D1",3(S,3 T
M` #
M`

4V%Y;&5S+"!7:6QL:6%M
M "]/4Q-0T\03U4]4TE4
M13 R+T-./5)%0TE0245.5%,00TX]4D1",3(S,3 T
M !%6
M >` (P!@` ,` #`
M '@`# , 8` M` P` !X`3 &` \$` ,` " ?8/!@` 0`
M `#` .D` P`5# 8` !` (!_P\&` 20` ,` Z0` " 0LP!@`
M `#` `#` .D` @`@.08` 0` P` L`#PX&` 0` +` \$` Z
M!@` \$` P`#^#P8` &` ,` #D&` >
M` /\Y!@` H` #` P!Q.@8` !X`_CD&` &` ,`
M` #` P!@` ,` #`
M`
M !B:6QL
M`
M`)V)I;&PG
M` %--5% Z5T%21"Y"0\$%-4U12+D-/30`
M`
M@2L?I+ZC\$!F=;@#`=0]4`@``0`G8FEL;"<`4TU44 !W87)D+F) 86US='(N
M8V]M`
M`
M`=B:6QL)P`
M`
M` !W87)D+F) 86US='(N8V]M`
M` 4TU44
M`
M` '@`" , 8` %` P` !X`S &` \$0` ,` >` \$P
M!@` <` #` @`V#P8` \$` P`#I` , %0P&` 0` "
M` ?\!/@` #4` #` .D` @#+ , 8` 6` P`#I` !X` (#H&` !P` ,`
M` +` \.!@` \$` "P! .@8` ,` _@&` !@`
M` #` Y!@` '@#\_.08` %` P` , <3H&`
M` #` P!@` (!B87)B87)A+FLN>FEM
M;65R;6%N0&QM8V\N8V]M`
M` 4D1",3(S,C@P`
M` %II;6UE<FUA;BP@0F%R8F%R82!+
M` !%
M6#H03SU,34-/+T]5/5-)5\$4P,B]#3CU214-)4\$E%3E13+T-./5)\$0C\$R,S(X
M, -RG0,C 0A :M+D("LOX8(!
M` "]/4Q-0T\03U4]4TE413 R+T-./5)%0TE0245.5%,00TX]4D1",3(S,C@P`
M`
M` !
M` 6FEM;65R;6%N+"!"87)B
M87)A(\$L
M` "]/4Q-0T\03U4]4TE413 R+T-./5)%0TE0245.5%,00TX]4D1",3(S
M,C@P` !%6
M`
M` >` (P!@` ,` #` '@`# , 8` M` P` !X`3 &`
M%0` ,` " ?8/!@` 0` #` .D` P`5# 8` !` (!\_P\&`
M` 20` ,` Z0` " 0LP!@` #` #` .D` @`@.08` 5` P` L`
M`#PX&` 0` +` \$` Z!@` \$` P`#^#P8` &`
M` ,` #D&` >` /\Y!@` H` #` P!Q.@8`

[illegible]

[illegible]

```

M!@``.@"``````````@`($ 8``!E````P````,$! &``````````#
M`!$0!@``````````@)$ 8``!^P``P"7`1X`<`&````"@"```,`
M``"7$`!@``!8```#`)<!0`Y``8``!Y72_5="/]"`0,`\3\&````"00`
M````"4$`!@``$D```#`)<!'@!D``8```#````P``!X`90`&````
M+0```,`>`$(`!@``H```#````@$[``8``P````P"7`0,`&D`&
M`PP&````+0```,`>`!H,!@``H```#````@$=# 8``P````P"7
M`0,`&4`&``````````+`!\.!@```$`9`!$#)<!'P#]/P8``#D!``
M`````,`!PX&````0````````!``8.!@```.#`EJMT\+T!`@$_`8``!)
M````P"7`1X`=0`&````P```,`>`'8`!@``"T```#````'@!``8`
M``0``P``(140`&```,`EP$#`!M`!@``````````@%#
M`8``!)`P"7`1X`=P`&``P```,`>`'@`!@``"T```#````
M`@!$`8``0``P``(140`&```,`EP$#`!Q`!@``
M``"P!7`8``!````L`6`&``````````+%D`!@```$`
M````@%``8``U``P"7`0(!^3\&``20```,`EP$>`/@_!@``
M`!````#````@`[/P8``!))``P"7`1X`^C\&``$```,`>`!H`
M!@``D```#````@`W`8``+``P``!X`/0`&````@```,`>
M`!T.`@``H```#`&0`P`7`8``!`Z2^HQ`9G6X`W0$/5`(``$08VQA
M`#`",.!.@``+KY````($K`Z2^HQ`9G6X`W0$/5`(``$08VQA
M<FLN8G)O=VY`;&UC;RYC;VT`4TU44`!C;&%R:RYB<F]W;D!L;6-0+F-0;0``
M``````````
+``````````
,

```

end

```

-----

Date: 4 Sep 99 17:45:30 EDT
From: Roy Lincoln <wa4dou@usa.net>
To: qrp-1@lehigh.edu
Subject: [49376] Looking Norcal Paddle Kit?
Message-ID: <19990904214530.4085.qmail@nwcst322.netaddress.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: quoted-printable

```

Earlier today(i think) someone was looking for a Norcal Paddle Kit. I thought it was Chuck but couldn't find the post. I have one i would be willing to part with. =

Please e-mail direct. Thanks es 73 , Roy Lincoln WA4DOU

Get free email and a permanent address at <http://www.netaddress.com/?N=3D=>

1

Date: Sat, 4 Sep 1999 16:58:02 -0500
From: "Mike =?ISO-8859-1?Q?N=D8WDM"?= <michaelbstjames@email.msn.com>
To: "qrp reflector" <qrp-1@Lehigh.EDU>
Subject: [49377] Help with Spyder (?) kits
Message-ID: <000101bef720\$91c87440\$d0350b3f@default>

Today, I picked up two (almost) complete Spider* (maybe) transceivers; one for 30 meters and one for 40 meters. There was no documentation with them, so I have a couple of questions for the group. *(The consensus of my radio club the output transistor is a 2N2219a and the only chip on the mother board is a M35DK LM 386N - 1)

1. What is the voltage for input ... (9 or 12 volts)?
 2. What kind of crystal does they take for each band (30 and 40 meters) and where can I get them?
- And (3.) What do the two knobs do? VX0 maybe? Rit?

I'm a complete rookie at anything homebrew so any help would be greatly appreciated.

Mike in Minnesota

Date: Sat, 4 Sep 1999 17:53:49 -0700
From: "Mark Paley" <mpaley@wcnet.org>
To: "qrp-1" <qrp-1@lehigh.edu>
Subject: [49378] Norcal paddle
Message-ID: <001101bef739\$1f194960\$78ab85cd@mpaley>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I am also looking for a Norcal paddle, completed, partially completed, or in kit form--as long as all of the parts are there...

Mark Paley--KF8KL--

K2 #250

mpaley@wcnet.org

<http://www.wcnet.org/~mpaley>

End of QRP-L Digest 1569
